Exhibit A page 1

Duke Energy Carolinas For the Period January 1, 2017 - December 31, 2022 Docket Number 2021-xx-E Exhibit Summary for Rider EE Exhibits and Factors

Residential Billing Factor

1 Costs to Be Recovered for Year 2017 True up	Year 2017, Exhibit 1, Line 16		(99,632)
2 Costs to be Recovered for Year 2018 True Up	Year 2018, Exhibit 1, Line 16		(228,271)
3 Costs to be Recovered for Year 2019 True Up	Year 2019, Exhibit 1, Line 16		16,663
4 Costs to be Recovered for Year 2020 True Up	Year 2019, Exhibit 1, Line 16		3,085,624
5 Total Cost to be Recovered Vintages Year 2017, Year 2018 and Year 2019 True-ups	Line 1 through Line 4	\$	2,774,384
6 Projected SC Residential Sales (kWh) for rate period	R13 Exhibit 3, Page 1 of 2, Line 3	•	6,540,330,420
7 Revenue Requirement True-up Component for Residential Rider EE (cents per kWh)	Line 5 / Line 6 * 100		0.0424
8 Costs to be Recovered for Vintage Year 2019 Prospective Amounts	Year 2019 Exhibit 1, Line 16		1,900,781
9 Costs to be Recovered for Vintage Year 2020 Prospective Amounts	Year 2020 Exhibit 1, Line 16		2,409,773
10 Costs to be Recovered for Vintage Year 2021 Prospective Amounts	Year 2021 Exhibit 1, Line 1		2,355,565
11 Costs to be Recovered for Vintage Year 2022 Prospective Amounts	Year 2022, Exhibit 1, pg 1 Line 12		28,848,987
12 Less: Costs to be Recovered through Solar Access Fee	R13 Exhibit 3 page 2 of 2		554,864
13 Total Prospective Components of Residential Revenue Requirement	Line 8 through Line 11 Less Line 12	\$	34,960,241
14 Projected SC Residential Sales (kWh) for rate period	R13 Exhibit 3, Page 1 of 2, Line 3	•	6,540,330,420
15 Revenue Requirement Year Prospective Component for Residential Rider EE (cents per kWh)	Line 13 / Line 14 * 100		0.5345
16 Total Revenue Requirement for Residential Rider EE	Line 5 + Line 13	\$	37,734,625
17 Total Revenue Requirement for Residential Rider EE (cents per kWh)	Line 7 + Line 15		0.5769
Non-Residential Billing Factors for Rider 13 True-Up Components			
18 Total Vintage Year 2017 True-Up EE Revenue Requirement - Vintage Year 2017 EE Participant	Year 2017 Exhibit 1, Line 27	\$	343,823
19 Projected Vintage Year 2017 EE Participants SC Non-Residential Sales (kwh) for rate period	R13 Exhibit 3, Page 1 of 2, Line 8	Ÿ	5,467,857,312
20 EE Revenue Requirement Vintage Year 2017 True-up Non-Residential Rider EE (cents per kWh)	Line 18/Line 19 * 100		0.0063
20 EL NOVEMBE NEGLINENE VINLAGE TEUR 2017 NOC OF NOT NESSACIONAL MACE 22 (COMO PER NOTIFY	Enc 10/Enc 15 100		0.0003
21 Total Vintage Year 2017 DSM True Up Revenue Requirement - Vintage Year 2017 DSM Participant	Year 2017 Exhibit 1, Line 40	\$	(47,421)
22 Projected Vintage Year 2017 DSM Participants SC Non-Residential Sales (kwh) for rate period	R13 Exhibit 3, Page 1 of 2, Line 9		6,214,045,053
23 DSM Revenue Requirement Vintage Year 2017 True-up Non-Residential Rider EE (cents per kWh)	Line 21/Line 22 * 100		(0.0008)
24 Total Vintage Year 2018 True-Up EE Revenue Requirement - Vintage Year 2018 EE Participant	Year 2018 Exhibit 1, Line 27	\$	1,750,292
25 Projected Vintage Year 2018 EE Participants SC Non-Residential Sales (kwh) for rate period	R13 Exhibit 3, Page 1 of 2, Line 10		5,362,845,935
26 EE Revenue Requirement Vintage Year 2018 True-up Non-Residential Rider EE (cents per kWh)	Line 24/Line 25 * 100		0.0326
27 Total Vintage Year 2018 DSM True Up Revenue Requirement - Vintage Year 2018 DSM Participant	Year 2018 Exhibit 1, Line 40	\$	263,580
28 Projected Vintage Year 2018 DSM Participants SC Non-Residential Sales (kwh) for rate period	R13 Exhibit 3, Page 1 of 2, Line 11		6,256,027,575
29 DSM Revenue Requirement Vintage Year 2018 True-up Non-Residential Rider EE (cents per kWh)	Line 27/Line 28 * 100		0.0042
30 Total Vintage Year 2019 True-Up EE Revenue Requirement - Vintage Year 2019 EE Participant	Year 2019 Exhibit 1, Line 27	\$	1,722,110
31 Projected Vintage Year 2019 EE Participants SC Non-Residential Sales (kwh) for rate period	R13 Exhibit 3, Page 1 of 2, Line 12		5,362,845,935
32 EE Revenue Requirement Vintage Year 2019 True-up Non-Residential Rider EE (cents per kWh)	Line 30/Line 31 * 100		0.0321
33 Total Vintage Year 2019 DSM True Up Revenue Requirement - Vintage Year 2019 DSM Participant	Year 2019 Exhibit 1, Line 40	\$	(142,590)
34 Projected Vintage Year 2019 DSM Participants SC Non-Residential Sales (kwh) for rate period	R13 Exhibit 3, Page 1 of 2, Line 13		6,254,126,751
35 DSM Revenue Requirement Vintage Year 2019 True-up Non-Residential Rider EE (cents per kWh)	Line 33/Line 34 * 100		(0.0023)
36 Total Vintage Year 2020 True-Up EE Revenue Requirement - Vintage Year 2020 EE Participant	Year 2020 Exhibit 1, Line 27	\$	(3,697,660)
37 Projected Vintage Year 2020 EE Participants SC Non-Residential Sales (kwh) for rate period	R13 Exhibit 3, Page 1 of 2, Line 14		5,304,825,796
38 EE Revenue Requirement Vintage Year 2020 True-up Non-Residential Rider EE (cents per kWh)	Line 36/Line 37 * 100		(0.0697)
39 Total Vintage Year 2020 DSM True Up Revenue Requirement - Vintage Year 2020 DSM Participant	Year 2020 Exhibit 1, Line 40	\$	(19,142)
40 Projected Vintage Year 2020 DSM Participants SC Non-Residential Sales (kwh) for rate period	R13 Exhibit 3, Page 1 of 2, Line 15		6,254,126,751
41 DSM Revenue Requirement Vintage Year 2020 True-up Non-Residential Rider EE (cents per kWh)	Line 39/Line 40 * 100		(0.0003)

Exhibit A page 2

Non-Residential Billing Factors for Rider 13 Prospective Components

42 Total Vintage Year 2019 Prospective EE Revenue Requirement - Vintage Year 2019 EE Participant 43 Projected Vintage Year 2019 EE Participants SC Non-Residential Sales (kwh) for rate period 44 EE Revenue Requirement Vintage Year 2019 Lost Revenues Non-Residential Rider EE (cents per kWh)	Year 2019 Exhibit 1, Line 27 R13 Exhibit 3, Page 1 of 2, Line 12 Line 42/Line 43 * 100	\$ 1,525,734 5,362,845,935 0.0285
45 Total Vintage Year 2020 Prospective EE Revenue Requirement - Vintage Year 2020 EE Participant 46 Projected Vintage Year 2020 EE Participants SC Non-Residential Sales (kwh) for rate period 47 EE Revenue Requirement Vintage Year 2020 Lost Revenues Non-Residential Rider EE (cents per kWh)	Year 2020 Exhibit 1, Line 27 R13 Exhibit 3, Page 1 of 2, Line 14 Line 45/Line 46 * 100	\$ 2,751,070 5,304,825,796 0.0519
48 Total Vintage Year 2021 Prospective EE Revenue Requirement - Vintage Year 2021 EE Participant 49 Projected Vintage Year 2021 EE Participants SC Non-Residential Sales (kwh) for rate period 50 EE Revenue Requirement Vintage Year 2021 Program Costs and Lost Revenues Non-Residential Rider EE (cents per kWh)	Year 2021 Exhibit 1, Pg. 2, Line 4 R13 Exhibit 3, Page 1 of 2, Line 16 Line 48/Line 49 * 100	\$ 4,194,740 5,318,242,897 0.0789
51 Total Vintage Year 2022 Prospective EE Revenue Requirement - Vintage Year 2022 EE Participant 52 Projected Vintage Year 2022 EE Participants SC Non-Residential Sales (kwh) for rate period 53 EE Revenue Requirement Vintage Year 2022 Program Costs and Lost Revenues Non-Residential Rider EE (cents per kWh)	Year 2022 Exhibit 1, Pg. 2, Line 7 R13 Exhibit 3, Page 1 of 2, Line 18 Line 51/Line 52 * 100	\$ 25,271,642 5,318,242,897 0.4752
54 Total Vintage Year 2022 Prospective DSM Revenue Requirement - Vintage Year 2022 DSM Participant 55 Projected Vintage Year 2022 DSM Participants SC Non-Residential Sales (kwh) for rate period 56 DSM Revenue Requirement Vintage Year 2022 Program Costs Non-Residential Rider EE (cents per kWh)	Year 2022 Exhibit 1, Pg. 2, Line 17 R13 Exhibit 3, Page 1 of 2, Line 19 Line 54/Line 55 * 100	\$ 8,377,727 6,254,963,836 0.1339
<u>Total costs to be recovered in Rider 13 from Non-Residential Customers</u>		
57 Total Vintage Year 2017 True-Up EE Revenue Requirement - Vintage Year 2017 EE Participant 58 Total Vintage Year 2018 True-Up EE Revenue Requirement - Vintage Year 2017 DSM Participant 59 Total Vintage Year 2018 True-Up EE Revenue Requirement - Vintage Year 2018 EE Participant 60 Total Vintage Year 2018 DSM True Up Revenue Requirement - Vintage Year 2018 DSM Participant 61 Total Vintage Year 2019 True-Up EE Revenue Requirement - Vintage Year 2019 EE Participant 62 Total Vintage Year 2019 DSM True Up Revenue Requirement - Vintage Year 2019 DSM Participant 63 Total Vintage Year 2020 True-Up EE Revenue Requirement - Vintage Year 2020 EE Participant 64 Total Vintage Year 2020 DSM True Up Revenue Requirement - Vintage Year 2020 DSM Participant 65 Total Vintage Year 2020 DSM True Up Revenue Requirement - Vintage Year 2020 EE Participant 66 Total Vintage Year 2020 Prospective EE Revenue Requirement - Vintage Year 2021 EE Participant 67 Total Vintage Year 2021 Prospective EE Revenue Requirement - Vintage Year 2021 EE Participant 68 Total Vintage Year 2022 Prospective EE Revenue Requirement - Vintage Year 2021 EE Participant 69 Total Vintage Year 2022 Prospective EE Revenue Requirement - Vintage Year 2022 EE Participant 70 Total Vintage Year 2022 Prospective DSM Revenue Requirement - Vintage Year 2022 DSM Participant 70 Total Vintage Year 2022 Prospective DSM Revenue Requirement - Vintage Year 2022 DSM Participant	Year 2017 Exhibit 1, Line 27 Year 2017 Exhibit 1, Line 40 Year 2018 Exhibit 1, Line 40 Year 2018 Exhibit 1, Line 40 Year 2019 Exhibit 1, Line 27 Year 2019 Exhibit 1, Line 27 Year 2019 Exhibit 1, Line 27 Year 2020 Exhibit 1, Line 40 Year 2020 Exhibit 1, Line 40 Year 2019 Exhibit 1, Line 27 Year 2020 Exhibit 1, Line 27 Year 2021 Exhibit 1, Pg. 2, Line 4 Year 2022 Exhibit 1, Pg. 2, Line 7 Year 2022 Exhibit 1, Pg. 2, Line 17	343,823 (47,421) 1,750,292 263,580 1,722,110 (142,590) (3,697,660) (19,142) 1,525,734 2,751,070 4,194,740 25,271,642 8,377,727 42,293,907

LECTRONICALLY FILED - 2021 March 1 4:40 PM - SCPSC - Docket # 2021-76-E - Page 3 of 40

RIDER EE (SC) **ENERGY EFFICIENCY RIDER**

APPLICABILITY (South Carolina Only)

Service supplied under the Company's rate schedules is subject to approved adjustments for new energy efficiency and demandside management programs approved by the Public Service Commission of South Carolina (PSCSC). The Rider Adjustments are not included in the Rate Schedules of the Company and therefore, must be applied to the bill as calculated under the applicable rate. As of January 1, 2021, cost recovery under Rider EE consists of the four year term program, years 2015-2018, as well as rates under the continuation of that program for years 2019-2022 as outlined below. This rider applies to service supplied under all rate schedules except rate schedules OL, PL and NL for program years 2017-2022.

The Rider will recover the cost of Duke Energy Carolinas' Interruptible Service and Stand-By Generator programs ("Existing DSM Programs") based on the cost of bill credits and amounts paid to customers participating on these programs ("Program Costs"). Revenue requirements will be determined on a system basis and allocated to SC retail customer classes based on the class contribution to system peak demand.

GENERAL PROVISIONS

This Rider will recover the cost of the Company's energy efficiency and demand-side management programs beginning January 1, 2015, using the method approved by the PSCSC as set forth in Order No. 2013-889 and as revised by Order No. 2021-32.

TRUE-UP PROVISIONS

Rider amounts will initially be determined based on estimated kW and kWh impacts related to expected customer participation in the programs, and will be trued-up on an annual basis as actual customer participation and actual kW and kWh impacts are verified. The true-up will reflect actual participation and EM&V results for the most recently completed vintage. If a customer participates in any vintage of programs, the customer is subject to the true-ups for any vintage of programs in which the customer participated.

RIDER EE OPT OUT PROVISION FOR QUALIFYING NON-RESIDENTIAL CUSTOMERS

The Rider EE increment applicable to energy efficiency programs and/or demand-side management programs will not be applied to the energy charge of the applicable rate schedule for Customers qualified to opt out of the programs where:

- The Customer has notified the Company in writing that it elects to opt out and that the opt-out customer has implemented its own energy management system or has performed or had performed for it an energy audit or analysis within the three year period preceding the opt out request and has implemented or has plans for implementing the costeffective energy efficiency measures recommended in that audit or analysis; and
- Electric service to the Customer must be provided under:
 - An electric service agreement where the establishment is classified as a "manufacturing industry" by the Standard Industrial Classification Manual published by the United States Government and where more than 50% of the electric energy consumption of such establishment is used for its manufacturing processes; or
 - 2. An electric service agreement for general service as provided for under the Company's rate schedules where the Customer's annual energy use is 1,000,000 kilowatt hours or greater in the billing months of the prior calendar year. Additionally, all other agreements billed to the same entity with lesser annual usage located on the same or contiguous properties are also eligible to opt out.

For Customers who elect to opt out of Energy Efficiency Programs, the following provisions also apply:

- Qualifying customers may opt out of the Company's energy efficiency programs each calendar year only during the designated annual two-month enrollment period. For the Rider EE 2022 Program Year, the enrollment period begins November 1, 2021 and ends December 31, 2021.
- Customers may not opt out of individual energy efficiency programs offered by the Company. The choice to opt out applies to the Company's entire portfolio of energy efficiency programs.
- If a customer participates in any vintage of energy efficiency programs, the customer, irrespective of future opt-out decisions, remains obligated to pay the remaining portion of the lost revenues for each vintage of efficiency programs in

0.5769¢ per kWh

RIDER EE (SC) **ENERGY EFFICIENCY RIDER**

which the customer participated.

Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE becoming effective may elect to opt in to the Company's energy efficiency program during the first 5 business days of March each calendar year. Customers making this election will be back-billed to the effective date of the new Rider EE.

For Customers who elect to opt out of Demand-Side Management Programs, the following provisions also apply:

- Qualifying customers may opt out of the Company's demand-side management program during the enrollment period between November 1, and December 31 immediately prior to a new Rider EE becoming effective on January 1 of the applicable year. (Qualifying new customers have sixty days after beginning service to opt out).
- If a customer elects to participate in a demand-side management program, the customer may not subsequently choose to opt out of demand-side management programs for three years.
- Customers who elect to opt out during the two-month annual enrollment period immediately prior to the new Rider EE becoming effective may elect to opt in to the Company's demand-side management program during the first 5 business days of March each calendar year. Customers making this election will be back-billed to the effective date of the new

Any qualifying non-residential customer that has not participated in an energy efficiency or demand-side management program may opt out during any enrollment period, and have no further responsibility to pay Rider EE amounts associated with the Customer's opt out election for energy efficiency and/or demand-side management programs.

ENERGY EFFICIENCY RIDER ADJUSTMENTS (EEA) FOR ALL PROGRAM YEARS

The Rider EE amounts applicable to the residential and nonresidential rate schedules for the period January 1, 2022 through December 31, 2022 including revenue-related taxes and utility assessments are as follows:

Residential

Nonresidential

Vintage 2017, 2018, 2019, 2020, 2021, 2022	0.5769¢ per kWh

Total Residential

	Energy Efficiency	<u>Demand-Side Management</u>
2017 Vintage*	0.0063¢ per kWh	(0.0008)¢ per kWh
2018 Vintage*	0.0326¢ per kWh	0.0042¢ per kWh
2019 Vintage*	0.0606¢ per kWh	(0.0023)¢ per kWh
2020 Vintage*	(0.0178)¢ per kWh	(0.0003)¢ per kWh
2021 Vintage*	0.0789¢ per kWh	0.0000¢ per kWh
2022 Vintage*	0.4752¢ per kWh	0.1339¢ per kWh
Total Vintage 2017, 2018, 2019, 2020, 2021, 2022	0.6358¢ per kWh	0.1355¢ per kWh

0.7713¢ per kWh

South Carolina Thirteenth Revised Leaf No. 62 Effective for service rendered from January 1, 2022 to December 31, 2022 PSCSC Docket No. 2020-XX-E, Order No 2021-XXX

Total Nonresidential

^{*} Not Applicable to Rate Schedules OL, PL and NL

RIDER EE (SC) ENERGY EFFICIENCY RIDER

Each factor listed under Nonresidential is applicable to nonresidential customers who are not eligible to opt out and to eligible customers who have not opted out. If a nonresidential customer has opted out of a Vintage(s), then the applicable energy efficiency and/or demand-side management charge(s) shown above for the Vintage(s) during which the customer has opted out will not apply to the bill.

Year 2017 Exhibit 1

Duke Energy Carolinas For the period January 1, 2017 - December 31, 2017

Docket Number 2021-xx-E Calculation of Year 2017 True up of Y1, Y2, Y3 and Y4 Lost Revenues

Residential Energy Efficiency Programs

Line		
1	Residential EE Program Cost	Year 2017 Exh 2
2	Residential EE Earned Utility Incentive	Year 2017 Exh 2
3	Total EE Program Cost and Incentive Components	Year 2017 Exh 2 Line 10
4	Residential DSM Program Cost	Year 2017 Exh 2
5	Residential DSM Earned Utility Incentive	Year 2017 Exh 2
6	Total DSM Program Cost and Incentive Components	Year 2017 Exh 2 Line 11
7	Residential Existing DSM Program Revenue Requirement Estimate	Prior Year data
8	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7
9	Revenue-related taxes and regulatory fees factor	
10	Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9
11	Residential Net Lost Revenues	R13 Exh 1, pages 1-6
12	Total Residential EE Revenue Requirement	Line 10 + Line 11
13	Estimated Revenues Collected	R13 Exh 2 Line 1
14	Residential EE Revenue Requirement	Line 12 - Line 13
15	Estimated Interest to be Recovered	R13 Exh 4 page 1 of 6, Line 1
16	Estimated Residential EE/DSM Revenue Requirement True Up	Line 14 + Line 15

Rider 8 Rider 9 Year 2		True-up to be Collected	Estimate of	True-up to be Collected	Estimate of	True-up to be Collected	True-up to be Collected	
		in Rider 10		in Rider 11		in Rider 12		V 2047
Year 2017 Estimate	Lost Revenue Estimate		Year 3 Lost Revenues	in Rider 11	Year 4 Lost Revenues	in Rider 12	in Rider 13	Year 2017
\$ 12,383,092		\$ 5,273,485		\$ -		\$ -	\$ -	\$ 17,656,577
1,384,934		2,008,972		(92,627)		-	-	3,301,279
13,768,026		7,282,457		(92,627)		-	-	20,957,856
2,997,324		251,290					-	3,248,614
1,117,352		68,938					-	1,186,290
4,114,676		320,228				-	-	4,434,904
576,427		22,800				-	-	599,227
18,459,129		7,625,485		(92,627)		-	-	25,991,987
1.004493		1.004487		1.004450		1.005014	1.005364	
18,542,066		7,659,701		(93,039)		-	-	26,108,728
4,457,989	4,202,002	(197,107)	3,175,509	(131,090)	699,427	(839,921)	(1,214)	11,365,594
23,000,055	4,202,002	7,462,594	3,175,509	(224,129)	699,427	(839,921)	(1,214)	37,474,322
								37,522,419
								\$ (48,098)
								(51,535)
								\$ (99,632)

See Exhibit A for rate

Non-Residential E	nergy Efficiency	Programs
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		Reference
17	Non- Residential EE Program Cost	Year 2017 Exh 2 Line 25
18	Non-Residential EE Earned Utility Incentive	Year 2017 Exh 2 Line 25
19	Total EE Program Cost and Incentive Components	Year 2017 Exh 2 Line 25
20	Revenue-related taxes and regulatory fees factor	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 19 * Line 20
22	Non-Residential Net Lost Revenues	R13 Exh 1 pages 1-6
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22
24	Estimated Revenues Collected	R13 Exh 2 Line 9
25	Non-Residential EE Revenue Requirement	Line 23 + Line 24
26	Estimated Interest to be Recovered	R13 Exh 4 page 3 of 6, Line 12
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest	Line 25 + line 26
28	Projected SC Residential Sales (kWh)	R13 Exhibit 3 Page 1 of 2, Line 8
29	SC Non-Residential EE billing factor (Cents/kWh)	Line 27 / Line 28 * 100

	Rider 8	Rider 9 Year 2	True-up to be Collected	Estimate of	True-up to be Collected	Estimate of	True-up to be Collected	True-up to be Collected	
Year 2	017 Estimate	Lost Revenue Estimate	in Rider 10	Year 3 Lost Revenues	in Rider 11	Year 4 Lost Revenues	in Rider 12	in Rider 13	Year 2017
\$	14,343,825		\$ 12,031,371		\$ -		\$ -	\$ -	\$ 26,375,196
	4,131,457		3,136,348		1,261,167			-	8,528,972
	18,475,282		15,167,719		1,261,167			-	34,904,168
	1.004493		1.004487		1.004450		1.005014	1.005364	
	18,558,291		15,235,776		1,266,779			-	35,060,847
	2,062,368	9,466,867	(2,154,791)	5,864,726	562,677	1,151,434	(1,416,219)	12,648	15,549,711
	20,620,659	9,466,867	13,080,985	5,864,726	1,829,456	1,151,434	(1,416,219)	12,648	50,610,558
									50,261,096
									\$ 349,461
									(5,638)
									\$ 343,823
									5,467,857,312
									0.0063

Non- Residential DSM Programs

30	Non- Residential DSM Program Cost	Year 2017 Exh 2 Line 27
31	Non-Residential DSM Earned Utility Incentive	Year 2017 Exh 2 Line 27
32	Total DSM Program Cost and Incentive Components	Year 2017 Exh 2 Line 27
33	Non- Residential Existing DSM Program Revenue Requirement Estimate	Prior Year data
34	Total DSM Revenue Requirement	Line 32 + Line 33
35	Revenue-related taxes and regulatory fees factor	
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	Line 34 * Line 35
37	Estimated Revenues Collected	R13 Exhibit 2, Line 17
38	Non-Residential DSM Revenue Requirement	Line 36 - Line 37
39	Estimated Interest Due	R13 Exh 4 Page 3 of 6, Line 25
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest	Line 38 + Line 39
41	Projected SC Non-Residential Sales (kWh)	R13 Exhibit 3 Page 1 of 2, Line 9
42	SC Non-Residential DSM billing factor	Line 40 / Line 41 * 100

Rider 9 Year 2	True-up to be Collected	Î			
					Year 2017 Revenue
Lost Revenue Estimate	Rider 10	Rider 11	Rider 12	Rider 13	Requirement True up
\$ 4,874,691	\$ (377,480)		\$ (0)	\$ -	\$ 4,497,211
1,817,203	(174,966)		0	-	1,642,237
6,691,894	(552,446)		(0)		6,139,448
937,471	(107,933)			-	829,538
7,629,365	(660,379)		(0)	-	6,968,986
1.004517	1.004487	1.004450	1.005014	1.005364	
7,663,827	(663,342)		(0)		7,000,484
					7,044,768
					(44,283)
					(3,138)
					\$ (47,421)
					6,214,045,053
					(0.0008)

 $^{^{\,1}}$ Details outlining the change in the program cost and incentive component can be found in Year 2017 Exh 2.

Updated lost revenues by year can be found in R13 Exh 1 pages 1-6. Year 2017 has been updated with most recent participation.

Year 2017 Exhibit 2

Duke Energy Carolinas
For the Period January 1, 2017 - December 31, 2017
Docket Number 2021-xx-E
Load Impacts and Estimated Revenue Requirements, Excluding Lost Revenue by Program

E = C * D

Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)		ystem NPV of Avoided Cost		Total Cost		Earned Utility Incentive		System Cost Plus Incentive	SC Retail Kwh Sales Allocation Factor (Year 2017 Exhibit 3 Line 6)	SC Residential Revenue Requirement
EE Programs	- Juniner Feux	- neadedon (kwin)					_	Editica otility illectitive	_		EO17 EXHIBIT S EITH Of	nequirement
1 Appliance Recycling			Ś		Ś	5,297		\$ (609)	Ś	4,688	27.1285500%	\$ 1,272
2 Energy Efficiency Education	1,393	5,932,086	,	3,796,779	,	2,072,267		198,319	Ÿ	2,270,586	27.1285500%	615,977
3 Energy Efficient Appliances and Devices	24,605	137,909,103		109,489,038		30,275,929		9,109,507		39,385,436	27.1285500%	10,684,698
4 Residential – Smart \$aver Energy Efficiency Program	1,850	6,712,977		7,785,926		7,387,527		45,816		7,433,343	27.1285500%	2,016,558
5 Income Qualified Energy Efficiency and Weatherization Assistance	771	5,341,624		3,379,518		5,493,401		· · · · · · · · · · · · · · · · · · ·		5,493,401	27.1285500%	1,490,281
6 Multi-Family Energy Efficiency	2,056	19,038,529		14,103,065		3,161,750		1,258,251		4,420,001	27.1285500%	1,199,082
7 Energy Assessments	1,040	7,720,549		6,828,928		2,902,310		451,561		3,353,871	27.1285500%	909,857
8 Total for Residential Conservation Programs	31,715	182,654,868	\$	145,383,253	\$	51,298,482	\$	11,062,845	\$	62,361,327		\$ 16,917,725
0.84-11	70.070	244 260 055		22 405 224		12 706 272		1 100 170		14 002 552	27.1285500%	4.040.434
9 My Home Energy Report (1) 10 Total Residential Conservation and Behavioral Programs	79,070 110,786	311,368,855 494,023,724	\$	23,405,321 168,788,574	->	13,786,373	\$	1,106,179 12,169,025	\$	14,892,552 77,253,880	27.1285500%	\$ 20,957,857
10 Total Residential Conservation and Denavioral Frograms	110,700	434,023,724	Ÿ	100,700,574		03,004,033	,	12,103,023	,	77,233,000		20,537,637
											SC Residential Peak Demand Allocation Factor (Year 2017, Exhibit 3 Line 14)	C * D
11 Total DSM Programs (2) 12 Total Residential Revenue Requirement	846,941	2,943,906	\$	124,226,016		29,752,076	\$	10,864,503	\$	40,616,579	10.91895%	\$ 4,434,904 25,392,761
12 Total resourcial nevenue negotienen												25,352,701
	System kW Reduction - Summer Peak	System Energy Reduction (kWh)		ystem NPV of Avoided Cost		Total Cost		Earned Utility Incentive		System Cost Plus Incentive	SC Retail Kwh Sales Allocation Factor (Year 2017 Exhibit 3 Line 6)	SC Residential Revenue Requirement
Non-Residential Programs												
EE Programs												
13 Non Residential Smart Saver Customer Technical Assessments	1,627	15,791,732	\$	10,616,111	Ś	2,135,919	\$	975,222	Ś	3,111,141	27.1285500%	\$ 844,007
14 Non Residential Smart Saver Custom	6,010	40,609,855		35,921,968		7,280,168		3,293,807		10,573,975	27.1285500%	2,868,566
15 Non Residential Smart Saver Energy Efficient Food Service Products	112	1,383,542		975,826		305,687		77,066		382,753	27.1285500%	103,835
16 Non Residential Smart Saver Energy Efficient HVAC Products	894	2,954,877		3,173,877		1,557,542		185,879		1,743,420	27.1285500%	472,965
17 Non Residential Smart Saver Energy Efficient Lighting Products	47,322	270,572,885		249,011,331		66,551,086		20,982,928		87,534,014	27.1285500%	23,746,709
18 Non Residential Energy Efficient Pumps and Drives	687	4,806,849		3,186,443		527,539		305,774		833,313	27.1285500%	226,066
19 Non Residential Energy Efficient ITEE	-	2,945		522		60,885		(6,942)		53,944	27.1285500%	14,634
20 Non Residential Energy Efficient Process Equipment Products	99	651,289		548,581		161,937		44,464		206,401	27.1285500%	55,993
21 Non Residential Smart Saver Performance Incentive 22 Small Business Energy Saver	17,263	12,373 90,297,362		9,433 65,920,718		313,256 17,318,666		(34,940) 5,589,236		278,316 22,907,902	27.1285500% 27.1285500%	75,503 6,214,582
23 Smart Energy in Offices	2,138	10,272,154		1,115,495		884,119		26,608		910,727	27.1285500%	247,067
24 Business Energy Report	2,130	42,398		722		126,219		20,008		126,219	27.1285500%	34,241
25 Total for Non-Residential Conservation Programs	76,158	437,398,260	\$	370,481,025	-	97,223,022	\$	31,439,103	\$	128,662,124	27.120330070	\$ 34,904,168
•	19,222		Ť	213,102,122			Ť		Ť	,		,,
as Tabal DCM Decreases											SC Residential Peak Demand Allocation Factor (Year 2017, Exhibit 3 Line 15)	C * D
26 Total DSM Programs 27 Total Non-Residential Revenue Requirement	846,941	2,943,906	Ś	124,226,016	Ś	29,752,076		10,864,503	Ś	40,616,579	15.11562%	\$ 6,139,448
27 Total Non-Nesidential Nevende Requirement	040,541	2,543,500	Ÿ	124,220,010	,	25,752,070		10,004,303	,	40,010,575	13.11302/0	41,043,615
											SC Residential Peak	,,
Total DSM Program Breakdown											Demand Allocation Factor (Year 2017, Exhibit 3 Line 13)	C * D
28 Power Manager (Residential)	501,118		\$	72,328,478	\$	13,991,587		6,708,742		20,700,330		
29 EnergyWise for Business (Non-Residential)	5,453	2,943,906		2,770,718		2,475,377		33,964		2,509,341		
30 Power Share Call Option (Non-Residential)	.,	,,		,				,-,		,,		
31 Power Share (Non-Residential)	340,369	-		49,126,820		13,285,111		4,121,797		17,406,908		
32 Total DSM	846,941	2,943,906	\$	124,226,016	\$	29,752,076	Ś	10,864,503	_	40,616,580	26.03457%	\$ 10,574,352
					_				_		20.03-37.70	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
33 Total All Programs	1,033,884	934,365,890		663,495,616	_	192,059,952	_	54,472,631	_	246,532,584		66,436,377

⁽¹⁾ My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintage.
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Year 2017 Exhibit 3

Duke Energy Carolinas For the Period January 1, 2017 - December 31, 2017 Docket Number 2020-xx-E Allocation Factor Year 2017

			MWH		
Sales	Allocator - 2016				
1	NC Retail MWH Sales, at Generation	Company Records	60,219,051		
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	22,437,625		
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	82,656,676		
4	Greenwood Retail MWH Sales, at Generation	Company Records	51,859		
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	82,708,535		
	Allocation 1 to state based on kWh sales				
6	SC Retail	Line 2 / Line 5	27.12855%		
Dema	nd Allocators - 2016		NC MW	SC MW	Total MW
7	Residential	Company Records	5,545,784	1,791,145	7,336,929
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,573,854	2,479,566	9,053,420
9	Greenwood	Company Records	-	13,651	13,651
10	Total	Line 7 + Line 8+ Line 9	12,119,638	4,284,362	16,404,000
11	Wholesale Peak Demand	Company Records			1,683,179
12	Total System Peak Demand	Line 10 + Line 11			18,087,179
	Allocation 2 to state based on peak demand				
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total	26.03457%		
	Allocation 3 SC res vs non-res Peak Demand to retail syste	m peak			
14	SC Residential	Line 7,SC / Line 10 Total	10.91895%		
15	SC Non-residential	Line 8, SC / Line 10 Total	15.11562%		
	Allocation 4 SC res vs non-res Peak Demand to retail syste	m peak for Existing DSM			
16	SC Residential	Line 7,SC / Line 12 Total	9.90284%		
17	SC Non-residential	Line 8, SC / Line 12 Total	13.70897%		
	55 55.551100	zc c, co / z.iiic zz Totai	10.7003770		

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Duke Energy Carolinas For the period January 1, 2018 - December 31, 2018

Docket Number 2021-xx-E Calculation of Year 2018 True up of Shared Savings, Y1, Y2 and Y3 Lost Revenues

Residential		

Line		
1	Residential EE Program Cost	Year 2018 Exh 2 (B * F)
2	Residential EE Earned Utility Incentive	Year 2018 Exh 2 (D * F)
3	Total EE Program Cost and Incentive Components	Year 2018 Exh 2 Line 9
4	Residential DSM Program Cost	Year 2018 Exh 2
5	Residential DSM Earned Utility Incentive	Year 2018 Exh 2
6	Total DSM Program Cost and Incentive Components	Year 2018 Exh 2 Line 10
7	Residential Existing DSM Program Revenue Requirement Estimate	Prior Year data
8	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7
9	Revenue-related taxes and regulatory fees factor	
10	Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9
11	Residential Net Lost Revenues	R13 Exh 1 pages 1-6
12	Total Residential EE Revenue Requirement	Line 10 + Line 11
13	Estimated Revenues Collected	R13 Exh 2 Line 2
14	Residential EE Revenue Requirement	Line 12 - Line 13
15	Estimated Interest to be Recovered	R13 Exh 4 page 1 of 6, Line 25
16	Estimated Posidential EE/DSM Povenue Pequirement True LIn	Line 14 ± Line 15

	ollected	True up to be Collect	Rider 12 Year 4	True up to be Collected	Rider 11 Year 3	True-up to be Collected	Rider 10 Year 2	Rider 9
Year 2018	3	in Rider 13	Lost Revenue Estimate	in Rider 12	Lost Revenue Estimate	in Rider 11	Lost Revenue Estimate	ar 2018 Estimate
\$ 21,000	-	\$ -		\$ 0		\$ 5,717,424		15,283,486
4,952	(8,443)	(8,4		63,898		2,073,758		2,823,195
25,953	(8,443)	(8,4		63,898		7,791,182		18,106,681
3,084	-			0		(36,918)		3,121,492
1,176	-)	(2,660)		(120,575)		1,299,438
4,260	-)	(2,660)		(157,493)		4,420,930
518	-			-		(69,105)		587,633
30,732	(8,443)	(8,4		61,238		7,564,584		23,115,244
	.005364	1.0053		1.005014		1.004450		1.004468
30,869	(8,488)	(8,4		61,545		7,598,246		23,218,523
16,313	(9,966)	(9,9	2,188,505	2,397,385	3,658,997	(1,098,081)	2,340,939	6,835,885
47,183	(18,454)	(18,4	2,188,505	2,458,930	3,658,997	6,500,166	2,340,939	30,054,408
47,597	Į							
\$ (414								
185	Į							
\$ (228	Ī							

See Exhibit A for rate

Non-Residential Energy Efficiency Programs

		Reference
17	Non- Residential EE Program Cost	Year 2018 Exh 2 (B * F) Line 2
18	Non-Residential EE Earned Utility Incentive	Year 2018 Exh 2 (D * F) Line 2
19	Total EE Program Cost and Incentive Components	Year 2018 Exh 2 Line 23
20	Revenue-related taxes and regulatory fees factor	
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 19 * Line 20
22	Non-Residential Net Lost Revenues	R13 Exh 1 pages 1-6
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22
24	Estimated Revenues Collected	R13 Exh 2 Line 10
25	Non-Residential EE Revenue Requirement	Line 23 + Line 24
26	Estimated Interest to be Recovered	R13 Exh 4 page 4 of 6, Line 12
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest	Line 25 + line 26

29	SC Non-Residential EE billing factor (Cents/kWh)	Line 27 / Line 28 * 100
28	Projected SC Residential Sales (kWh)	R13 Exhibit 3 Page 1 of 2, Line 10
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest	Line 25 + line 26
26	Estimated Interest to be Recovered	R13 Exh 4 page 4 of 6, Line 12
25	Non-Residential EE Revenue Requirement	Line 23 + Line 24
24	Estimated Revenues Collected	K13 EXN 2 Line 10

ntial EE billing factor (Cents/kWh)	Line 27	Line 28	100

	Ė	True up to be Collected	ider 12 Year 4	True up to be Collected	Rider 11 Year 3	True-up to be Collected	Rider 10 Year 2	Rider 9
Year 2018		in Rider 13	Revenue Estimate	in Rider 12	Lost Revenue Estimate	in Rider 11	Lost Revenue Estimate	Year 2018 Estimate
\$ 13,915,394	\$	\$ -		\$ -		\$ (989,651)		\$ 14,905,045
6,899,71		-		(14,016)		1,107,249		5,806,479
20,815,10		-		(14,016)		103,583		20,711,524
Į.	64	1.005364		1.005014		1.004450		1.004468
20,894,02		-		(14,086)		104,044		20,804,063
14,008,05	5	59,795	2,036,447	967,787	4,251,946	510,686	4,168,069	2,013,322
34,902,07	5	59,795	2,036,447	953,701	4,251,946	614,730	4,168,069	22,817,385
33,452,29								
\$ 1,449,77	\$							
300,519								
\$ 1,750,29	\$							
5,398,397,73								
0.0324								

Non- Residential DSM Programs

30	Non- Residential DSM Program Cost	Year 2018 Exh 2 (B * F)
31	Non-Residential DSM Earned Utility Incentive	Year 2018 Exh 2 (D * F)
32	Total DSM Program Cost and Incentive Components	Year 2018 Exh 2 Line 26
33	Non- Residential Existing DSM Program Revenue Requirement Estimate	Prior Year data
34	Total DSM Revenue Requirement	Line 32 + Line 33
35	Revenue-related taxes and regulatory fees factor	
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	Line 34 * Line 35
37	Estimated Revenues Collected	R13 Exhibit 2 Line 18
38	Non-Residential DSM Revenue Requirement	Line 36 - Line 37
39	Estimated Interest Due	R13 Exh 4 Page 4 of 6, Line 25
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest	Line 38 + Line 39
41	Projected SC Non-Residential Sales (kWh)	R13 Exhibit 3 Page 1 of 2, Line 11
42	SC Non-Residential DSM billing factor	Line 40 / Line 41 * 100

	Rider 9	True up to be Collected	True-up to be Collected	True up to be Collected	
Year 2018 Estimate		in Rider 11	in Rider 12	in Rider 13	Year 2018 Revenue Requirement True up
\$	4,294,311	\$ 595,319	\$ (0)	\$ -	\$ 4,889,630
	1,787,668	81,051	-4,217		1,864,502
	6,081,979	676,370	-4,217		6,754,131
	808,421	13,543	0	\$ -	821,964
	6,890,400	689,913	-4,217		7,576,096
	1.004468	1.004450	1.005014	1.005364	
	6,921,186	692,983	-4,238		7,609,931
					7,323,681
					286,250
					(22,670)
					\$ 263,580
					6,256,027,575
					0.0042

 $^{^{1}\,\,}$ Details outlining the change in the program cost and incentive component can be found in Year 2018 Exh 2.

Updated lost revenues by year can be found in R13 Exh 1 pages 1-6. Year 2018 has been updated with most recent participation. Year 4 Lost Revenues are shown as an estimate. They will be trued up in Rider 14.

Year 2018 Exhibit 2 **Duke Energy Carolinas**

Vintage 2018 True Up - January 1, 2018 to December 31, 2018 Docket Number 2021-xx-E Load Impacts and Estimated Revenue Requirements by Program

			^		b	·		=(A-B)*C	= (B+	rD)		•			
Residential Programs	System kW Reduction - Summer Peak	System Energy Reduction (kWh)	System NPV of Costs	Avoided	Total Cost	Shared Savings %		Incentive	System Re Require		SC Retail kWh Sales Allocation Factor	SC Allocation Factor (2)			dential Revenue
EE Programs			-			-			-					-	
1 Energy Efficiency Education	967	5.530.707	\$ 3	503.558	\$ 1,984,212	11.5%	Ś	174.725	Ś	2,158,937	27.2269600%		E1 * F1	ė	587,813
2 Energy Efficient Appliances and Devices	32,802	195,213,017			\$ 42,585,486	11.5%	š	14,065,118		56,650,604	27.2269600%		E2 * F2	ė	15,424,237
3 HVAC Energy Efficiency	1,640	6,367,174			\$ 6,937,076	11.5%	ś	206,610		7,143,686	27.2269600%		E3 * F3	Š	1,945,009
4 Low Income Energy Efficiency and Weatherization Assistance	888	6,845,653			\$ 6,466,549	0.0%	ś	200,010		6.466.549	27.2269600%		E4 * F4	Š	1,760,645
5 Multi-Family Energy Efficiency	2,336	20,923,363			\$ 3,595,399	11.5%	Ś	1,490,985		5,086,384	27.2269600%		E5 * F5	Š	1,384,868
6 Residential Energy Assessments	929	7,716,668	7		\$ 2,827,755	11.5%	Ś	472,709		3,300,464	27.2269600%		E6 * F6	Š	898.616
7 Total for Residential Conservation Programs	39,561	242,596,582			\$ 64,396,478	11.570	\$	16,410,148		80,806,625	27.22030070		25 10	\$	22,001,188
8 My Home Energy Report	95.887	344.759.844	\$ 28.	207.657	\$ 12.736.300	11.5%	Ś	1.779.206	\$ 1	14.515.506	27.2269600%		E8 * F8	Ś	3.952.131
9 Total Residential Conservation and Behavioral Programs	135.449	587,356,426			\$ 77,132,778		Ś	18,189,354		95,322,132				Ś	25,953,319
10 Power Manager® 11 Total Residential	533,506 668,955	587,356,426	\$ 78,	750,405	\$ 14,385,126 \$ 91,517,904	11.5%	\$ \$	7,402,007 25,591,361	\$ 2	21,787,133	SC Residential Peak Demand Allocation Factor 26.29348%	38.6819100% 10.1708203%	(E10+E26) *F10 *G10	\$	4,260,777 30,214,096
	System kW Reduction - Summer	System Energy	System NPV of Costs	Avoided	Total Cost	Shared Savings %		Incentive	System Re Require		SC Retail kWh Sales Allocation Factor				esidential Revenue
	Peak	Reduction (kWh)									Allocation Factor			ne	quirement
Non-Residential Programs	Peak	Reduction (kWh)					-				Allocation Factor			Re	quirement
•	Peak	Reduction (kWh)				-					Allocation Factor			Re	equirement
EE Programs			•	81 442	\$ 403.871	11 5%		(37,079)	4	366 791			F12 * F12		
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments	13	83,588	\$		\$ 403,871	11.5%	\$	(37,079)	\$	366,791 8 591 290	27.2269600%		E12 * F12	\$	99,866
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom	13 4,054	83,588 30,333,040	\$ 28,	227,381	\$ 6,039,708	11.5%	\$	2,551,582	\$	8,591,290	27.2269600% 27.2269600%		E13 * F13		99,866 2,339,147
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products	13 4,054 59	83,588 30,333,040 741,466	\$ 28,	227,381 518,380	\$ 6,039,708 \$ 234,375	11.5% 11.5%	\$	2,551,582 32,661	\$	8,591,290 267,036	27.2269600% 27.2269600% 27.2269600%		E13 * F13 E14 * F14	\$	99,866 2,339,147 72,706
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct HVAC Products	13 4,054 59 893	83,588 30,333,040 741,466 2,908,386	\$ 28, \$ \$ 3,	227,381 518,380 470,605	\$ 6,039,708 \$ 234,375 \$ 1,615,730	11.5% 11.5% 11.5%	\$	2,551,582 32,661 213,311	\$ \$ \$	8,591,290 267,036 1,829,041	27.2269600% 27.2269600% 27.2269600% 27.2269600%		E13 * F13 E14 * F14 E16 * F16	\$	99,866 2,339,147 72,706 497,992
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products	13 4,054 59	83,588 30,333,040 741,466	\$ 28, \$ \$ 3, \$ 177,	227,381 518,380 470,605 759,083	\$ 6,039,708 \$ 234,375 \$ 1,615,730	11.5% 11.5%	\$ \$ \$	2,551,582 32,661	\$ \$ \$	8,591,290 267,036	27.2269600% 27.2269600% 27.2269600%		E13 * F13 E14 * F14	\$	99,866 2,339,147 72,706
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct HVAC Products 16 Non Residential Smart Saver Energy Efficienct Lighting Products	13 4,054 59 893 31,556	83,588 30,333,040 741,466 2,908,386 178,171,791	\$ 28, \$ \$ 3, \$ 177,	227,381 518,380 470,605 759,083 966,173	\$ 6,039,708 \$ 234,375 \$ 1,615,730 \$ 25,802,953	11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$	2,551,582 32,661 213,311 17,474,955	\$ \$ \$ \$ \$	8,591,290 267,036 1,829,041 43,277,908	27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600%		E13 * F13 E14 * F14 E16 * F16 E17 * F17	\$	99,866 2,339,147 72,706 497,992 11,783,259
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct HVAC Products 16 Non Residential Smart Saver Energy Efficienct Lighting Products 17 Non Residential Smart Saver Energy Efficienct Pumps and Drives Products	13 4,054 59 893 31,556 421	83,588 30,333,040 741,466 2,908,386 178,171,791 2,669,016	\$ 28, \$ 3, \$ 177, \$ 1,	227,381 518,380 470,605 759,083 966,173 3,605	\$ 6,039,708 \$ 234,375 \$ 1,615,730 \$ 25,802,953 \$ 276,631	11.5% 11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$	2,551,582 32,661 213,311 17,474,955 194,297	\$ \$ \$ \$ \$	8,591,290 267,036 1,829,041 43,277,908 470,929	27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600%		E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18	\$	99,866 2,339,147 72,706 497,992 11,783,259 128,220
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficient Food Service Products 15 Non Residential Smart Saver Energy Efficient HVAC Products 16 Non Residential Smart Saver Energy Efficient Lighting Products 17 Non Residential Smart Saver Energy Efficient Upthing Products 18 Non Residential Energy Efficient TPEE	13 4,054 59 893 31,556 421	83,588 30,333,040 741,466 2,908,386 178,171,791 2,669,016 17,639	\$ 28, \$ 3, \$ 177, \$ 1,	227,381 518,380 470,605 759,083 966,173 3,605 276,076	\$ 6,039,708 \$ 234,375 \$ 1,615,730 \$ 25,802,953 \$ 276,631 \$ 36,201	11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$ \$	2,551,582 32,661 213,311 17,474,955 194,297 (3,748)	\$ \$ \$ \$ \$ \$	8,591,290 267,036 1,829,041 43,277,908 470,929 32,453	27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600%		E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19	\$	99,866 2,339,147 72,706 497,992 11,783,259 128,220 8,836
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct HVAC Products 16 Non Residential Smart Saver Energy Efficienct Lighting Products 17 Non Residential Smart Saver Energy Efficienct Lighting Products 18 Non Residential Emart Saver Energy Efficienct Pumps and Drives Products 18 Non Residential Energy Efficienct ITEE 19 Non Residential Smart Saver Energy Efficienct Process Equipment Products	13 4,054 59 893 31,556 421 - 75	83,588 30,333,040 741,466 2,908,386 178,171,791 2,669,016 17,639 331,222	\$ 28, \$ \$ 3, \$ 177, \$ 1, \$ \$ \$	227,381 518,380 470,605 759,083 966,173 3,605 276,076 010,821	\$ 6,039,708 \$ 234,375 \$ 1,615,730 \$ 25,802,953 \$ 276,631 \$ 36,201 \$ 67,107	11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$ \$ \$	2,551,582 32,661 213,311 17,474,955 194,297 (3,748) 24,031	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	8,591,290 267,036 1,829,041 43,277,908 470,929 32,453 91,138	27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600%		E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20	\$	99,866 2,339,147 72,706 497,992 11,783,259 128,220 8,836 24,814
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficient Food Service Products 15 Non Residential Smart Saver Energy Efficient HVAC Products 16 Non Residential Smart Saver Energy Efficient Lighting Products 17 Non Residential Smart Saver Energy Efficient Lighting Products 18 Non Residential Smart Saver Energy Efficient Pumps and Drives Products 18 Non Residential Energy Efficient ITEE 19 Non Residential Smart Saver Energy Efficient Process Equipment Products 20 Smart Saver(R) Non Residential Performance Incentive Program	13 4,054 59 893 31,556 421 - 75	83,588 30,333,040 741,466 2,908,386 178,171,791 2,669,016 17,639 331,222 3,271,186	\$ 28, \$ 3, \$ 177, \$ 1, \$ 5, \$ 5,	227,381 518,380 470,605 759,083 966,173 3,605 276,076 010,821	\$ 6,039,708 \$ 234,375 \$ 1,615,730 \$ 25,802,953 \$ 276,631 \$ 36,201 \$ 67,107 \$ 475,950	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	· s s s s s s s s s s	2,551,582 32,661 213,311 17,474,955 194,297 (3,748) 24,031 176,510	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	8,591,290 267,036 1,829,041 43,277,908 470,929 32,453 91,138 652,460	27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600%		E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21	\$	99,866 2,339,147 72,706 497,992 11,783,259 128,220 8,836 24,814 177,645
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct HVAC Products 16 Non Residential Smart Saver Energy Efficienct Lighting Products 17 Non Residential Smart Saver Energy Efficienct Lighting Products 18 Non Residential Energy Efficienct ITEE 19 Non Residential Smart Saver Energy Efficienct Process Equipment Products 20 Smart Saver(R) Non Residential Performance Incentive Program 21 Small Business Energy Saver	13 4,054 59 893 31,556 421 - 75 168 13,374	83,588 30,333,040 741,466 2,908,386 178,171,791 2,669,016 17,639 331,222 3,271,186 76,696,523	\$ 28, \$ 3, \$ 177, \$ 1, \$ \$ \$ \$ \$ \$ \$ \$	227,381 518,380 470,605 759,083 966,173 3,605 276,076 010,821 980,827 175,126	\$ 6,039,708 \$ 234,375 \$ 1,615,730 \$ 25,802,953 \$ 276,631 \$ 36,201 \$ 67,107 \$ 475,950 \$ 15,941,553	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$ \$ \$ \$ \$ \$	2,551,582 32,661 213,311 17,474,955 194,297 (3,748) 24,031 176,510 4,719,517	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	8,591,290 267,036 1,829,041 43,277,908 470,929 32,453 91,138 652,460 20,661,070	27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600%		E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22	\$	99,866 2,339,147 72,706 497,992 11,783,259 128,220 8,836 24,814 177,645 5,625,381
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficient Food Service Products 15 Non Residential Smart Saver Energy Efficient HVAC Products 16 Non Residential Smart Saver Energy Efficient Lighting Products 17 Non Residential Smart Saver Energy Efficient Lughting Products 18 Non Residential Energy Efficient ITEE 19 Non Residential Smart Saver Energy Efficient Process Equipment Products 20 Smart Saver(R) Non Residential Performance Incentive Program 21 Small Business Energy Saver 22 Smart Energy in Offices	13 4,054 59 893 31,556 421 - 75 168 13,374 310 50,922	83,588 30,333,040 741,466 2,908,386 178,177,791 2,669,016 17,639 331,222 3,271,186 76,696,523 1,488,592	\$ 28, \$ 3, \$ 177, \$ 1, \$ \$ \$ \$ \$ \$ \$ \$	227,381 518,380 470,605 759,083 966,173 3,605 276,076 010,821 980,827 175,126	\$ 6,039,708 \$ 234,375 \$ 1,615,730 \$ 25,802,953 \$ 276,631 \$ 36,201 \$ 67,107 \$ 475,950 \$ 15,941,553 \$ 214,800	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	· s s s s s s s s s s	2,551,582 32,661 213,311 17,474,955 194,297 (3,748) 24,031 176,510 4,719,517 (4,563)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	8,591,290 267,036 1,829,041 43,277,908 470,929 32,453 91,138 652,460 20,661,070 210,237	27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600%		E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	99,866 2,339,147 72,706 497,992 11,783,259 128,220 8,836 24,814 177,645 5,625,381 57,241
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficient Food Service Products 15 Non Residential Smart Saver Energy Efficient HVAC Products 16 Non Residential Smart Saver Energy Efficient Upting Products 17 Non Residential Smart Saver Energy Efficient Pumps and Drives Products 18 Non Residential Smart Saver Energy Efficient Pumps and Drives Products 19 Non Residential Smart Saver Energy Efficient Process Equipment Products 20 Smart Saver(R) Non Residential Performance Incentive Program 21 Small Business Energy Saver 22 Smart Energy in Offices 23 Total for Non-Residential Conservation Programs	13 4,054 9 9 893 31,556 421 - - - 5 168 13,374 310 50,922	83,588 30,333,040 741,466 2,908,386 178,177,791 2,669,016 17,639 331,222 3,271,186 76,696,523 1,488,592	\$ 28, \$ 5, \$ 3, \$ 177, \$ 1, \$ 5, \$ 2, \$ 56, \$ 5 271,	227,381 518,380 470,605 759,083 966,173 3,605 276,076 010,821 980,827 175,126 469,519	\$ 6,039,708 \$ 234,375 \$ 1,615,730 \$ 25,802,953 \$ 276,631 \$ 36,201 \$ 67,107 \$ 475,950 \$ 15,941,553 \$ 214,800 \$ 51,108,880 \$ \$ 3,053,547	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	· s s s s s s s s s s	2,551,582 32,661 213,311 17,474,955 194,297 (3,748) 24,031 176,510 4,719,517 (4,563)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	8,591,290 267,036 1,829,041 43,277,908 470,929 32,453 91,138 652,460 20,661,070 210,237 76,450,353	27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600%		E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	99,866 2,339,147 72,706 497,992 11,783,259 128,220 8,836 24,814 177,645 5,625,381 57,241
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficient Food Service Products 15 Non Residential Smart Saver Energy Efficient HVAC Products 16 Non Residential Smart Saver Energy Efficient Lighting Products 17 Non Residential Smart Saver Energy Efficient Lighting Products 18 Non Residential Energy Efficient TPEE 19 Non Residential Energy Efficient TPEE 19 Non Residential Energy Efficient TPEE 20 Smart Saver(R) Non Residential Performance Incentive Program 21 Small Business Energy Saver 22 Smart Energy in Offices 23 Total for Non-Residential Conservation Programs	13 4,054 59 893 31,556 42,1 7 5 168 13,374 310 50,922	83,588 30,333,040 741,466 2,908,386 178,171,791 2,669,016 17,639 331,222 3,271,186 76,696,523 1,488,592 296,712,448	\$ 28, \$ 5, \$ 3, \$ 177, \$ 1, \$ 5 \$ 5, \$ 5, \$ 5, \$ 5, \$ 271, \$ \$ 3, \$ 49, \$ 49,	227,381 518,380 470,605 759,083 966,173 3,605 276,076 010,821 980,827 175,126 469,519 038,625 099,348	\$ 6,039,708 \$ 234,375 \$ 1,615,730 \$ 25,802,953 \$ 36,201 \$ 67,107 \$ 475,950 \$ 15,941,553 \$ 214,800 \$ 51,108,880 \$ 3,053,547 \$ 12,889,014	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,551,582 32,661 213,311 17,474,955 194,297 (3,748) 24,031 176,510 4,719,517 (4,563) 25,341,474	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	8,591,290 267,036 1,829,041 43,277,908 470,929 32,453 91,138 652,460 20,661,070 210,237 76,450,353	27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269400% 27.2269400% 27.2269400% 27.2269400% 27.2269400%		E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22 E23 * F23	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	99,866 2,339,147 72,706 497,992 11,783,259 128,220 8,836 24,814 177,645 5,625,381 57,241 20,815,107
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficient Food Service Products 15 Non Residential Smart Saver Energy Efficient HVAC Products 16 Non Residential Smart Saver Energy Efficient Upting Products 17 Non Residential Smart Saver Energy Efficient Pumps and Drives Products 18 Non Residential Smart Saver Energy Efficient Pumps and Drives Products 19 Non Residential Smart Saver Energy Efficient Process Equipment Products 20 Smart Saver(R) Non Residential Performance Incentive Program 21 Small Business Energy Saver 22 Smart Energy in Offices 23 Total for Non-Residential Conservation Programs	13 4,054 9 9 893 31,556 421 - - - 5 168 13,374 310 50,922	83,588 30,333,040 741,466 2,908,386 178,171,791 2,669,016 17,639 331,222 3,271,186 76,696,523 1,488,592 296,712,448	\$ 28, \$ 5, \$ 3, \$ 177, \$ 1, \$ 5 \$ 5, \$ 5, \$ 5, \$ 5, \$ 271, \$ \$ 3, \$ 49, \$ 49,	227,381 518,380 470,605 759,083 966,173 3,605 276,076 010,821 980,827 175,126 469,519 038,625 099,348	\$ 6,039,708 \$ 234,375 \$ 1,615,730 \$ 25,802,953 \$ 276,631 \$ 36,201 \$ 67,107 \$ 475,950 \$ 15,941,553 \$ 214,800 \$ 51,108,880 \$ \$ 3,053,547	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,551,582 32,661 213,311 17,474,955 194,297 (3,748) 24,031 176,510 4,719,517 (4,563) 25,341,474	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	8,591,290 267,036 1,829,041 43,277,908 470,929 32,453 91,138 652,460 20,661,070 210,237 76,450,353	27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600%	61.3180900% 16.1226597%	E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	99,866 2,339,147 72,706 497,992 11,783,259 128,220 8,836 24,814 177,645 5,625,381 57,241
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct HVAC Products 15 Non Residential Smart Saver Energy Efficienct HVAC Products 16 Non Residential Smart Saver Energy Efficienct Lighting Products 17 Non Residential Smart Saver Energy Efficienct Lighting Products 18 Non Residential Smart Saver Energy Efficienct Pumps and Drives Products 18 Non Residential Smart Saver Energy Efficienct Process Equipment Products 20 Smart Saver(B) Non Residential Performance Incentive Program 21 Small Business Energy Saver 22 Smart Energy in Offices 23 Total for Non-Residential Conservation Programs	13 4,054 59 893 31,556 42,1 7 5 168 13,374 310 50,922	83,588 30,333,040 741,466 2,908,386 178,171,791 2,669,016 17,639 331,222 3,271,186 76,696,523 1,488,592 296,712,448	\$ 28, \$ 3, \$ 177, \$ 1, \$ 5 \$ 2, \$ 56, \$ 5 \$ 271, \$ 5 \$ 52, \$ 5	227,381 518,380 470,605 759,083 966,173 3,605 276,076 010,821 980,827 175,126 469,519 038,625 099,348	\$ 6,039,708 \$ 234,375 \$ 1,615,730 \$ 25,802,953 \$ 36,201 \$ 67,107 \$ 475,950 \$ 15,941,553 \$ 214,800 \$ 51,108,880 \$ 3,053,547 \$ 12,889,014	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	2,551,582 32,661 213,311 17,474,955 194,297 (3,748) 4,031 176,510 4,719,517 (4,563) 25,341,474	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	8,591,290 267,036 1,829,041 43,277,908 470,929 32,453 91,138 652,460 20,661,070 210,237 76,450,353	27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269600% 27.2269400% 27.2269400% 27.2269400% 27.2269400% 27.2269400%	61.3180900% 16.1226597%	E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22 E23 * F23	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	99,866 2,339,147 72,706 497,992 11,783,259 128,220 8,836 24,814 177,645 5,625,381 57,241 20,815,107

⁽¹⁾ My Home Energy Report impacts reflect cumulative capability as of end of vintage year.
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Year 2018 Exhibit 3

Duke Energy Carolinas For the Period January 1, 2018 - December 31, 2018 Docket Number 2021-xx-E Allocation Factor Year 2018

			MWH		
Sales	Allocator - 2017				
1	NC Retail MWH Sales, at Generation	Company Records	58,534,269		
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	21,917,798		
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	80,452,067		
4	Greenwood Retail MWH Sales, at Generation	Company Records	48,295		
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	80,500,362		
	Allocation 1 to state based on kWh sales				
6	SC Retail	Line 2 / Line 5	27.22696%		
Dema	nd Allocators - 2017		NC MW	SC MW	Total MW
7	Residential	Company Records	5,078,308	1,606,176	6,684,484
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,549,145	2,546,091	9,095,236
9	Greenwood	Company Records	-	12,280	12,280
10	Total	Line 7 + Line 8+ Line 9	11,627,453	4,164,547	15,792,000
11	Wholesale Peak Demand	Company Records			1,443,703
12	Total System Peak Demand	Line 10 + Line 11			17,235,703
	Allocation 2 to state based on peak demand				
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total	26.29348%		
	Allocation 3 SC res vs non-res Peak Demand to retail syste	m peak			
14	SC Residential	Line 7,SC / Line 10 Total	10.17082%		
15	SC Non-residential	Line 8, SC / Line 10 Total	16.12266%		
	Allocation 4 SC res vs non-res Peak Demand to retail syste	m peak for Existing DSM			
16	SC Residential	Line 7,SC / Line 12 Total	9.31889%		
17	SC Non-residential	Line 8, SC / Line 12 Total	14.77219%		
1,	Je Hon residential	Enic 3, 30 / Enic 12 Total	14.7721370		

Year 2019 Exhibit 1 **Duke Energy Carolinas**

For the period January 1, 2019 - December 31, 2019

Docket Number 2021-xx-E Calculation of Year 2019 True up of Shared Savings, Y1 and Y2 Lost Revenues and Estimate Y4 Lost Revenues

	Residential Energy Efficiency Programs		Esti	mate of
Line			Year 4 Los	st Revenues
1	Residential EE Program Cost	Year 2019 Exh 2 (B * F)		
2	Residential EE Earned Utility Incentive	Year 2019 Exh 2 (D * F)		
3	Total EE Program Cost and Incentive Components	Year 2019 Exh 2 Line 9		
4	Residential DSM Program Cost	Year 2019 Exh 2 (B * G)		
5	Residential DSM Earned Utility Incentive	Year 2019 Exh 2 (D * G)		
6	Total DSM Program Cost and Incentive Components	Year 2019 Exh 2 Line 10		
7	Residential Existing DSM Program Revenue Requirement Estimate	Prior Year data		
8	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7		
9	Revenue-related taxes and regulatory fees factor			
10	Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9		
11	Residential Net Lost Revenues	R13 Exh 1 pages 1-6	\$	1,900,781
12	Total Residential EE Revenue Requirement	Line 10 + Line 11		1,900,781
13	Estimated Revenues Collected	R13 Exh 2 Line 3		
14	Residential EE Revenue Requirement	Line 12 - Line 13	\$	1,900,781
15	Estimated Interest to be Recovered	R13 Exh 4 page 2 of 6, Line 12		
16	Estimated Residential EE/DSM Revenue Requirement True Up	Line 14 + Line 15	\$	1,900,781

	d	True up to be Collected	er 12 Year 3	True-up to be Collected	Rider 11 Year 2	Rider 10
Year 2019		in Rider 13	enue Estimate	in Rider 12	Lost Revenue Estimate	Year 2019 Estimate
\$ 19,925,8	- :	\$ -		\$ 4,648,138		\$ 15,277,676
2,913,5	08)	(46,608		1,307,649		1,652,557
22,839,4	08)	(46,608		5,955,788		16,930,233
3,186,0		-		(230,155)		3,416,211
1,325,8		-		156,403		1,169,437
4,511,8		-		(73,753)		4,585,648
526,0		-		(73,152)		599,227
27,877,3	08)	(46,608		5,808,883		22,115,108
	54	1.005364		1.005014		1.004487
28,005,4	58)	(46,858		5,838,008		22,214,338
14,802,8	54)	(54,854	4,134,540	1,802,617	2,189,992	6,730,566
42,808,3	11)	(101,711	4,134,540	7,640,625	2,189,992	28,944,904
43,001,0						
\$ (192,6						
209,3						
\$ 16,6						

See Exhibit A for rate

	Non-Residential Energy Efficiency Programs		E	stimate of
		Reference	Year 4	Lost Revenues
17	Non- Residential EE Program Cost	Year 2019 Exh 2 (B * F)		
18	Non-Residential EE Earned Utility Incentive	Year 2019 Exh 2 (D * F)		
19	Total EE Program Cost and Incentive Components	Year 2019 Exh 2 Line 23		
20	Revenue-related taxes and regulatory fees factor			
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 19 * Line 20		
22	Non-Residential Net Lost Revenues	R13 Exh 1 pages 1-6	\$	1,525,734
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22		1,525,734
24	Estimated Revenues Collected	R13 Exh 2 Line 11		
25	Non-Residential EE Revenue Requirement	Line 23 + Line 24	\$	1,525,734
26	Estimated Interest to be Recovered	R13 Exh 4 page 5 of 6, Line 12		
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest	Line 25 + line 26	\$	1,525,734
28	Projected SC Residential Sales (kWh)	R13 Exhibit 3 Page 1 of 2, Line 12		5,362,845,935
29	SC Non-Residential EE billing factor (Cents/kWh)	Line 27 / Line 28 * 100		0.0285

		e Collected	True up to be	Rider 12 Year 3	True-up to be Collected	Rider 11 Year 2	Rider 10
	Year 2019	er 13	in Ride	Lost Revenue Estimate	in Rider 12	Lost Revenue Estimate	ar 2019 Estimate
)	\$ 12,111,740	-	\$		\$ (3,415,190)		15,526,930
13	4,474,62	292,806			682,509		3,499,309
3	16,586,36	292,806			(2,732,681)		19,026,239
		1.005364			1.005014		1.004487
13	16,659,60	294,376			(2,746,383)		19,111,610
13	9,621,52	233,121		3,626,400	(3,084,171)	5,687,530	3,158,643
16	26,281,12	527,497		3,626,400	(5,830,554)	5,687,530	22,270,253
16	24,552,74						
5	\$ 1,728,380						
J)	(6,270						
5	\$ 1,722,110						
5	5,362,845,93						
1	0.032						

Non- Residential DSM Programs

SM Revenue Requirement e-related taxes and regulatory fees factor on-Residential DSM Program Cost and Incentive Revenue Requirements ed Revenues Collected sidential DSM Revenue Requirement ed Interest Due ed Non-Residential DSM Revenue Requirement True Up after Interest ed SC Non-Residential Sales (kWh)	Line 32 - Line 33 Line 34 - Line 35 R13 Exhibit 2 Line 19 Line 36 - Line 37 R13 Exh 4 Page 5 of 6, Line 25 Line 38 - Line 39 R13 Exhibit 3 Page 1 of 2, Line 13
e-related taxes and regulatory fees factor on-Residential DSM Program Cost and Incentive Revenue Requirements ed Revenues Collected sidential DSM Revenue Requirement ed Interest Due	Line 34 * Line 35 R13 Exhibit 2 Line 19 Line 36 - Line 37 R13 Exh 4 Page 5 of 6, Line 25
e-related taxes and regulatory fees factor on-Residential DSM Program Cost and Incentive Revenue Requirements ed Revenues Collected sidential DSM Revenue Requirement	Line 34 * Line 35 R13 Exhibit 2 Line 19 Line 36 - Line 37
e-related taxes and regulatory fees factor on-Residential DSM Program Cost and Incentive Revenue Requirements red Revenues Collected	Line 34 * Line 35 R13 Exhibit 2 Line 19
e-related taxes and regulatory fees factor on-Residential DSM Program Cost and Incentive Revenue Requirements	Line 34 * Line 35
e-related taxes and regulatory fees factor	
·	Line 32 + Line 33
Sivi kevenue kequirement	Line 32 + Line 33
CAA Darrage Dageriage and	Line 32 + Line 33
esidential Existing DSM Program Revenue Requirement Estimate	Prior Year data
SM Program Cost and Incentive Components	Year 2019 Exh 2, Line 26
sidential DSM Earned Utility Incentive	Year 2019 Exh 2 (D * F)
esidential DSM Program Cost	Year 2019 Exh 2 (B * F)
	esidential DSM Program Cost esidential DSM Earned Utility Incentive

		True up to be Collected	True up to be Collected	Rider 10
Year 2019 Revenue	Г			
Requirement True up		in Rider 13	in Rider 12	Year 2019 Estimate
\$ 4,544,689	5	\$ -	\$ (184,534)	\$ 4,729,223
1,891,219		-	272,312	1,618,907
6,435,908	Т		87,778	6,348,130
750,410		-	(79,128)	829,538
7,186,318	Т		8,650	7,177,668
	4	1.005364	1.005014	1.004487
7,218,568	Т		8,694	7,209,874
7,353,312				
(134,744)	Т			
(7,846)				
\$ (142,590)				
6,254,126,751				
(0.0023)	Г			

 $^{^{\,1}}$ Details outlining the change in the program cost and incentive component can be found in Year 2019 Exh 2.

Updated lost revenues by year can be found in R13 Exh 1 pages 1-6. Year 2019 has been updated with most recent participation. Year 3 Lost Revenues are shown as an estimate. They will be trued up in Rider 14.

Year 2019 Exhibit 2

Duke Energy Carolinas Vintage 2019 True Up - January 1, 2019 to December 31, 2019 Docket Number 2021-xx-E

Load Impacts and Estimated Revenue Requirements by Program

			A		В	С		D =(A-B)*C	E = (B+D)	F	G			н
Residential Programs	System kW Reduction - Summer	System Energy Reduction (kWh)	System NPV of Avoided	ı	Total Cost	Shared Savings %		Incentive	System Revenue Requirement	SC Retail kWh Sales	SC Allocation			ential Revenue
	Peak	Reduction (KWh)							- nequirement	Allocation Factor	Factor (2)		Kei	quirement
EE Programs														
1 Energy Efficiency Education	841	6,713,787	\$ 2,720,228		1,644,077	11.5%	\$	123,757	\$ 1,767,834	26.8476100%		E1 * F1	\$	474,621
2 Energy Efficient Appliances and Devices	30,689	187,883,075	\$ 108,546,158		40,433,533	11.5%	\$	7,832,952	\$ 48,266,485	26.8476100%		E2 * F2	\$	12,958,398
3 HVAC Energy Efficiency	2,029	7,329,114	\$ 7,862,313		7,402,907	11.5%	\$	52,832	\$ 7,455,739	26.8476100%		E3 * F3	\$	2,001,688
4 Low Income Energy Efficiency and Weatherization Assistance	1,074	8,782,273	\$ 3,896,116		7,344,325	0.0%	\$	-	\$ 7,344,325	26.8476100%		E4 * F4	\$	1,971,776
5 Multi-Family Energy Efficiency	2,610	21,339,210	\$ 11,660,455		3,681,262	11.5%	\$	917,607	\$ 4,598,869	26.8476100%		E5 * F5	\$	1,234,687
6 Residential Energy Assessments	946	7,886,916	\$ 4,631,948		3,153,757	11.5%	\$	169,992	\$ 3,323,749	26.8476100%		E6 * F6	\$	892,347
7 Total for Residential Conservation Programs	38,190	239,934,375	\$ 139,317,217	\$	63,659,861		\$	9,097,140	\$ 72,757,001				\$	19,533,517
8 My Home Energy Report	91,387	328,439,103	\$ 25,821,106	Ś	10,558,344	11.5%	Ś	1,755,218	\$ 12,313,561	26.8476100%		E8 * F8	\$	3,305,897
9 Total Residential Conservation and Behavioral Programs	129,577	568,373,477	\$ 165,138,323		74,218,205	11.370	Ś	10.852.358	\$ 85,070,563	20.047 010078		20 10	Ś	22,839,414
													-	
										SC Residential Peak				
										Demand Allocation Factor				
10 Power Manager®	568,235		\$ 84,747,635		13,386,942	11.5%	\$	8,206,480	\$ 21,593,422	25.6859100%	41.212790%	(E10+E26) *F10 *G10	\$	4,511,895
11 Total Residential	697,812	568,373,477	\$ 249,885,958	\$	87,605,147		\$	19,058,837	\$ 106,663,984		10.585880%		\$	27,351,309
	System kW													
	Reduction - Summer	System Energy	System NPV of Avoide	1	Total Cost	Shared Savings %		Incentive	System Revenue	SC Retail kWh Sales			SC Non-Re	sidential Revenue
	Peak	Reduction (kWh)	Costs			•			Requirement	Allocation Factor			Red	quirement
Non-Residential Programs			Costs	_					Requirement	Allocation Factor			Rec	quirement
S .			Costs						Requirement	Allocation Factor			Rei	quirement
EE Programs	Peak	Reduction (kWh)			296,006	11 5%	•					E12 * E12	Red	
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments	Peak	Reduction (kWh) 1,930,762	\$ 721,698		296,006	11.5%	\$	48,955	\$ 344,961	26.8476100%		E12 * F12	\$	92,614
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom	148 10,109	1,930,762 52,522,612	\$ 721,698 \$ 38,688,495	\$	8,873,872	11.5%	\$	48,955 3,428,682	\$ 344,961 \$ 12,302,554	26.8476100% 26.8476100%		E13 * F13	\$ \$ \$	92,614 3,302,942
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products	148 10,109 78	1,930,762 52,522,612 997,611	\$ 721,698 \$ 38,688,495 \$ 428,610	\$	8,873,872 339,996	11.5% 11.5%	\$	48,955 3,428,682 10,191	\$ 344,961 \$ 12,302,554 \$ 350,186	26.8476100% 26.8476100% 26.8476100%		E13 * F13 E14 * F14	\$	92,614 3,302,942 94,017
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct HVAC Products	148 10,109 78 1,696	1,930,762 52,522,612 997,611 7,533,194	\$ 721,698 \$ 38,688,499 \$ 428,616 \$ 6,148,766	\$ \$ \$	8,873,872 339,996 2,208,364	11.5% 11.5% 11.5%	\$ \$ \$	48,955 3,428,682 10,191 453,146	\$ 344,961 \$ 12,302,554 \$ 350,186 \$ 2,661,510	26.8476100% 26.8476100% 26.8476100% 26.8476100%		E13 * F13 E14 * F14 E16 * F16	\$	92,614 3,302,942 94,017 714,552
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct Lighting Products 16 Non Residential Smart Saver Energy Efficienct Lighting Products	148 10,109 78 1,696 29,566	1,930,762 52,522,612 997,611 7,533,194 163,560,290	\$ 721,698 \$ 38,688,499 \$ 428,610 \$ 6,148,766 \$ 113,013,677	\$ \$ \$ \$	8,873,872 339,996 2,208,364 20,834,766	11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$	48,955 3,428,682 10,191 453,146 10,600,574	\$ 344,961 \$ 12,302,554 \$ 350,186 \$ 2,661,510 \$ 31,435,340	26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100%		E13 * F13 E14 * F14 E16 * F16 E17 * F17	\$	92,614 3,302,942 94,017 714,552 8,439,638
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct HVAC Products 16 Non Residential Smart Saver Energy Efficienct Lighting Products 17 Non Residential Smart Saver Energy Efficienct Pumps and Drives Product	148 10,109 78 1,696 29,566	1,930,762 52,522,612 997,611 7,533,194 163,560,290 1,460,589	\$ 721,698 \$ 38,688,499 \$ 428,610 \$ 6,148,760 \$ 113,013,677 \$ 770,533	\$ \$ \$ \$ \$	8,873,872 339,996 2,208,364 20,834,766 189,172	11.5% 11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$ \$	48,955 3,428,682 10,191 453,146 10,600,574 66,856	\$ 344,961 \$ 12,302,554 \$ 350,186 \$ 2,661,510 \$ 31,435,340 \$ 256,028	26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100%		E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18	\$	92,614 3,302,942 94,017 714,552 8,439,638 68,738
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct HVAC Products 16 Non Residential Smart Saver Energy Efficienct Lighting Products 17 Non Residential Smart Saver Energy Efficienct Pumps and Drives Product 18 Non Residential Energy Efficienct ITEE	148 10,109 78 1,696 29,566 232	1,930,762 52,522,612 997,611 7,533,194 163,560,290 1,460,589 11,262	\$ 721,698 \$ 38,688,491 \$ 428,610 \$ 6,148,76 \$ 113,013,677 \$ 770,533 \$ 1,388	\$ \$ \$ \$ \$	8,873,872 339,996 2,208,364 20,834,766 189,172 44,335	11.5% 11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$ \$	48,955 3,428,682 10,191 453,146 10,600,574 66,856 (4,940)	\$ 344,961 \$ 12,302,554 \$ 350,186 \$ 2,661,510 \$ 31,435,340 \$ 256,028 \$ 39,395	26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100%		E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19	\$	92,614 3,302,942 94,017 714,552 8,439,638 68,738 10,577
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct HQAC Products 16 Non Residential Smart Saver Energy Efficienct Lighting Products 17 Non Residential Smart Saver Energy Efficienct Ughting Products 18 Non Residential Smart Saver Energy Efficienct Pumps and Drives Product 18 Non Residential Energy Efficienct ITEE	Peak 148 10,109 78 1,696 29,566 5 232 - tt 111	1,930,762 52,522,612 997,611 7,533,194 163,560,290 1,460,589 11,262 732,043	\$ 721,698 \$ 38,688,495 \$ 428,610 \$ 6,148,760 \$ 113,013,677 \$ 770,533 \$ 1,383 \$ 442,047	\$ \$ \$ \$ \$ \$ \$ \$	8,873,872 339,996 2,208,364 20,834,766 189,172 44,335 119,843	11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$ \$ \$ \$ \$	48,955 3,428,682 10,191 453,146 10,600,574 66,856 (4,940) 37,053	\$ 344,961 \$ 12,302,554 \$ 350,186 \$ 2,661,510 \$ 31,435,340 \$ 256,028 \$ 39,395 \$ 156,897	26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100%		E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20	\$	92,614 3,302,942 94,017 714,552 8,439,638 68,738 10,577 42,123
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Gustom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct HVAC Products 16 Non Residential Smart Saver Energy Efficienct HyAC products 17 Non Residential Smart Saver Energy Efficienct Pumps and Drives Product 18 Non Residential Smart Saver Energy Efficienct Process Equipment Product 19 Non Residential Smart Saver Energy Efficienct Process Equipment Product 20 Smart Saver(R) Non Residential Performance Incentive Program	148 10,109 78 1,696 29,566 232 111 391	1,930,762 52,522,612 997,611 7,533,194 163,560,290 1,460,589 11,262 732,043 4,545,995	\$ 721,698 \$ 38,688,491 \$ 428,611 \$ 6,148,76 \$ 113,013,67 \$ 770,532 \$ 1,383 \$ 442,041 \$ 2,330,741	\$ \$ \$ \$ \$ \$ \$	8,873,872 339,996 2,208,364 20,834,766 189,172 44,335 119,843 785,165	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	. \$ \$ \$ \$ \$ \$ \$ \$	48,955 3,428,682 10,191 453,146 10,600,574 66,856 (4,940) 37,053 177,741	\$ 344,961 \$ 12,302,554 \$ 350,186 \$ 2,661,510 \$ 31,435,340 \$ 256,028 \$ 39,395 \$ 156,897 \$ 962,906	26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100%		E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21	\$	92,614 3,302,942 94,017 714,552 8,439,638 68,738 10,577 42,123 258,517
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct HyAC Products 16 Non Residential Smart Saver Energy Efficienct Lighting Products 17 Non Residential Smart Saver Energy Efficienct Ughting Products 18 Non Residential Energy Efficienct ITEE 19 Non Residential Energy Efficienct TEE 19 Non Residential Energy Efficienct TEE 19 Non Residential Smart Saver Energy Efficienct Process Equipment Product 20 Smart Saver(R) Non Residential Performance Incentive Program 21 Small Business Energy Saver	Peak 148 10,109 78 1,696 29,566 5 232 - tt 111	1,930,762 52,522,612 997,611 7,533,194 163,560,290 1,460,589 11,262 732,043	\$ 721,698 \$ 38,688,495 \$ 428,610 \$ 6,148,760 \$ 113,013,677 \$ 770,533 \$ 1,383 \$ 442,047	\$ \$ \$ \$ \$ \$ \$	8,873,872 339,996 2,208,364 20,834,766 189,172 44,335 119,843	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	· \$ \$ \$ \$ \$ \$ \$ \$	48,955 3,428,682 10,191 453,146 10,600,574 66,856 (4,940) 37,053	\$ 344,961 \$ 12,302,554 \$ 350,186 \$ 2,661,510 \$ 31,435,340 \$ 256,028 \$ 39,395 \$ 156,897	26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100%		E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22	\$	92,614 3,302,942 94,017 714,552 8,439,638 68,738 10,577 42,123
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct HydAC Products 16 Non Residential Smart Saver Energy Efficienct Lighting Products 17 Non Residential Smart Saver Energy Efficienct Lighting pand Drives Product 18 Non Residential Energy Efficienct ITEE 19 Non Residential Energy Efficienct Process Equipment Produc 20 Smart Saver(R) Non Residential Performance Incentive Program 21 Small Business Energy Saver	148 10,109 78 1,696 29,566 3 232 - 11 391 9,196	1,930,762 52,522,612 997,611 7,533,194 163,560,290 1,460,589 11,262 732,043 4,545,995 53,674,194	\$ 721,699 \$ 38,688,499 \$ 428,611 \$ 6,148,76 \$ 113,013,67 \$ 770,53 \$ 1,383 \$ 442,041 \$ 2,330,741 \$ 27,495,205 \$ 5	* * * * * * * * * * * * * * * * * * * *	8,873,872 339,996 2,208,364 20,834,766 189,172 44,335 119,843 785,165 11,421,399	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	. \$ \$ \$ \$ \$ \$ \$ \$	48,955 3,428,682 10,191 433,146 10,600,574 66,856 (4,940) 37,053 177,741 1,848,488	\$ 344,961 \$ 12,302,554 \$ 350,186 \$ 2,661,510 \$ 31,435,340 \$ 256,028 \$ 39,395 \$ 156,897 \$ 962,906 \$ 13,269,887 \$ -	26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100%		E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21	\$	92,614 3,302,942 94,017 714,552 8,439,638 68,738 10,577 42,123 258,517
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct HyAC Products 16 Non Residential Smart Saver Energy Efficienct Lighting Products 17 Non Residential Smart Saver Energy Efficienct Ughting Products 18 Non Residential Energy Efficienct ITEE 19 Non Residential Energy Efficienct TEE 19 Non Residential Energy Efficienct TEE 19 Non Residential Smart Saver Energy Efficienct Process Equipment Product 20 Smart Saver(R) Non Residential Performance Incentive Program 21 Small Business Energy Saver	148 10,109 78 1,696 29,566 232 111 391	1,930,762 52,522,612 997,611 7,533,194 163,560,290 1,460,589 11,262 732,043 4,545,995	\$ 721,699 \$ 38,688,499 \$ 428,611 \$ 6,148,76 \$ 113,013,67 \$ 770,53 \$ 1,383 \$ 442,041 \$ 2,330,741 \$ 27,495,205 \$ 5	* * * * * * * * * * * * * * * * * * * *	8,873,872 339,996 2,208,364 20,834,766 189,172 44,335 119,843 785,165	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	* * * * * * * * * *	48,955 3,428,682 10,191 453,146 10,600,574 66,856 (4,940) 37,053 177,741	\$ 344,961 \$ 12,302,554 \$ 350,186 \$ 2,661,510 \$ 31,435,340 \$ 256,028 \$ 39,395 \$ 156,897 \$ 962,906 \$ 13,269,887 \$ -	26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100%		E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22	\$	92,614 3,302,942 94,017 714,552 8,439,638 68,738 10,577 42,123 258,517 3,562,648
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct HydAC Products 16 Non Residential Smart Saver Energy Efficienct Lighting Products 17 Non Residential Smart Saver Energy Efficienct Lighting pand Drives Product 18 Non Residential Energy Efficienct ITEE 19 Non Residential Energy Efficienct Process Equipment Produc 20 Smart Saver(R) Non Residential Performance Incentive Program 21 Small Business Energy Saver	148 10,109 78 1,696 29,566 3 232 - 11 391 9,196	1,930,762 52,522,612 997,611 7,533,194 163,560,290 1,460,589 11,262 732,043 4,545,995 53,674,194	\$ 721,699 \$ 38,688,499 \$ 428,611 \$ 6,148,76 \$ 113,013,67 \$ 770,53 \$ 1,383 \$ 442,041 \$ 2,330,741 \$ 27,495,205 \$ 5	* * * * * * * * * * * * * * * * * * * *	8,873,872 339,996 2,208,364 20,834,766 189,172 44,335 119,843 785,165 11,421,399	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	* * * * * * * * * *	48,955 3,428,682 10,191 433,146 10,600,574 66,856 (4,940) 37,053 177,741 1,848,488	\$ 344,961 \$ 12,302,554 \$ 350,186 \$ 2,661,510 \$ 31,435,340 \$ 256,028 \$ 39,395 \$ 156,897 \$ 962,906 \$ 13,269,887 \$ -	26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100%		E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22	\$	92,614 3,302,942 94,017 714,552 8,439,638 68,738 10,577 42,123 258,517 3,562,648
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct HydAC Products 16 Non Residential Smart Saver Energy Efficienct Lighting Products 17 Non Residential Smart Saver Energy Efficienct Lighting pand Drives Product 18 Non Residential Energy Efficienct ITEE 19 Non Residential Energy Efficienct Process Equipment Produc 20 Smart Saver(R) Non Residential Performance Incentive Program 21 Small Business Energy Saver	148 10,109 78 1,696 29,566 3 232 - 11 391 9,196	1,930,762 52,522,612 997,611 7,533,194 163,560,290 1,460,589 11,262 732,043 4,545,995 53,674,194	\$ 721,699 \$ 38,688,499 \$ 428,611 \$ 6,148,76 \$ 113,013,67 \$ 770,53 \$ 1,383 \$ 442,041 \$ 2,330,741 \$ 27,495,205 \$ 5	* * * * * * * * * * * * * * * * * * * *	8,873,872 339,996 2,208,364 20,834,766 189,172 44,335 119,843 785,165 11,421,399	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	* * * * * * * * * *	48,955 3,428,682 10,191 433,146 10,600,574 66,856 (4,940) 37,053 177,741 1,848,488	\$ 344,961 \$ 12,302,554 \$ 350,186 \$ 2,661,510 \$ 31,435,340 \$ 256,028 \$ 39,395 \$ 156,897 \$ 962,906 \$ 13,269,887 \$ -	26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100%		E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22	\$	92,614 3,302,942 94,017 714,552 8,439,638 68,738 10,577 42,123 258,517 3,562,648
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct HVAC Products 16 Non Residential Smart Saver Energy Efficienct Lighting Products 17 Non Residential Smart Saver Energy Efficienct Upturps and Drives Product 18 Non Residential Smart Saver Energy Efficienct Process Equipment Product 19 Non Residential Smart Saver Energy Efficienct Process Equipment Product 20 Smart Saver(R) Non Residential Performance Incentive Program 21 Small Business Energy Saver 22 Smart Energy in Offices 23 Total for Non-Residential Conservation Programs	148 10,109 78 1,696 29,566 3 232 - 11 111 391 9,196 - 51,527	1,930,762 52,522,612 997,611 7,533,194 163,560,290 1,460,589 11,262 732,043 4,545,995 53,674,194 286,968,552	\$ 721,698 \$ 38,688,49! \$ 428,616 \$ 61,48,766 \$ 113,013,67; \$ 770,53; \$ 1,382 \$ 442,041 \$ 2,330,74! \$ 2,7,495,20; \$ 190,041,154	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	8,873,872 339,996 2,208,364 20,834,766 189,172 44,335 119,843 785,165 11,421,399	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	48,955 3,428,682 10,191 453,146 10,600,574 66,856 (4,940) 37,053 177,741 1,848,488 16,666,747	\$ 344,961 \$ 12,302,554 \$ 350,186 \$ 2,661,510 \$ 31,435,340 \$ 256,028 \$ 39,395 \$ 156,827 \$ 962,906 \$ 13,269,887 \$ 9	26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100%		E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22	\$	92,614 3,302,942 94,017 714,552 8,439,638 68,738 10,577 42,123 258,517 3,562,648
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct HVAC Products 16 Non Residential Smart Saver Energy Efficienct Lighting Products 17 Non Residential Smart Saver Energy Efficienct Pumps and Drives Product 18 Non Residential Energy Efficienct ITEE 19 Non Residential Smart Saver Energy Efficienct Process Equipment Product 20 Smart Saver(R) Non Residential Performance Incentive Program 21 Small Business Energy Saver 22 Smart Energy in Offices 23 Total for Non-Residential Conservation Programs	Peak 148 10,109 78 1,696 29,566 s 232 - tt 111 391 9,196 - 51,527	1,930,762 52,522,612 997,611 7,533,194 163,560,290 1,460,589 11,262 732,043 4,545,995 53,674,194	\$ 721,699 \$ 38,688,49 \$ 428,61 \$ 6,148,76 \$ 113,013,67: \$ 770,53: \$ 1,382 \$ 442,041 \$ 2,30,741 \$ 2,30,741 \$ 190,041,154	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	8,873,872 339,996 2,208,364 20,834,766 189,172 44,335 119,843 785,165 11,421,399 45,112,917	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	48,955 3,428,682 10,191 453,146 10,600,574 66,856 (4,940) 37,053 177,741 1,848,488 - 16,666,747	\$ 344,961 \$ 12,302,554 \$ 350,186 \$ 2,661,510 \$ 31,435,340 \$ 256,028 \$ 39,395 \$ 156,897 \$ 962,906 \$ 13,269,887 \$ 5 \$ 61,779,665	26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.859100%		E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22	\$	92,614 3,302,942 94,017 714,552 8,439,638 68,738 10,577 42,123 258,517 3,562,648
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct Hydt Products 16 Non Residential Smart Saver Energy Efficienct Lighting Froducts 17 Non Residential Smart Saver Energy Efficienct Ughting Froducts 18 Non Residential Energy Efficienct IPEE 19 Non Residential Energy Efficienct Process Equipment Product 20 Smart Saver(R) Non Residential Performance Incentive Program 21 Small Business Energy Saver 22 Smart Energy in Offices 23 Total for Non-Residential Conservation Programs	148 10,109 78 1,696 29,566 3 232 - 11 111 391 9,196 - 51,527	1,930,762 52,522,612 997,611 7,533,194 163,560,290 1,460,589 11,262 732,043 4,545,995 53,674,194 286,968,552	\$ 721,698 \$ 38,688,49! \$ 428,611 \$ 6,148,766 \$ 113,013,67; \$ 770,532 \$ 1,382 \$ 442,041 \$ 27,495,200 \$ 190,041,154	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	8,873,872 339,996 2,208,364 20,834,766 189,172 44,335 119,843 785,165 11,421,399 45,112,917	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	48,955 3,428,682 10,191 453,146 10,600,574 66,856 (4,940) 37,053 177,741 1,848,488 16,666,747	\$ 344,961 \$ 12,302,554 \$ 350,186 \$ 2,661,510 \$ 31,435,340 \$ 256,028 \$ 39,395 \$ 156,897 \$ 962,906 \$ 13,269,887 \$ 61,779,665	26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100%		E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22 E23 * F23	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	92,614 3,302,942 94,017 714,552 8,439,638 68,738 10,577 42,123 288,517 3,562,648 16,586,366
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct HVAC Products 16 Non Residential Smart Saver Energy Efficienct Lighting Products 17 Non Residential Smart Saver Energy Efficienct Pumps and Drives Product 18 Non Residential Energy Efficienct ITEE 19 Non Residential Smart Saver Energy Efficienct Process Equipment Product 20 Smart Saver(R) Non Residential Performance Incentive Program 21 Small Business Energy Saver 22 Smart Energy in Offices 23 Total for Non-Residential Conservation Programs	Peak 148 10,109 78 1,696 29,566 s 232 - tt 111 391 9,196 - 51,527	1,930,762 52,522,612 997,611 7,533,194 163,560,290 1,460,589 11,262 732,043 4,545,995 53,674,194 286,968,552	\$ 721,699 \$ 38,688,49 \$ 428,61 \$ 6,148,76 \$ 113,013,67: \$ 770,53: \$ 1,382 \$ 442,041 \$ 2,30,741 \$ 2,30,741 \$ 190,041,154	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	8,873,872 339,996 2,208,364 20,834,766 189,172 44,335 119,843 785,165 11,421,399 45,112,917	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	48,955 3,428,682 10,191 453,146 10,600,574 66,856 (4,940) 37,053 177,741 1,848,488 - 16,666,747	\$ 344,961 \$ 12,302,554 \$ 350,186 \$ 2,661,510 \$ 31,435,340 \$ 256,028 \$ 39,395 \$ 156,897 \$ 962,906 \$ 13,269,887 \$ 5 \$ 61,779,665	26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.859100%	58.787211%	E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22	\$	92,614 3,302,942 94,017 714,552 8,439,638 68,738 10,577 42,123 258,517 3,562,648
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct HyAC Products 16 Non Residential Smart Saver Energy Efficienct Lighting Products 17 Non Residential Smart Saver Energy Efficienct Ughting Products 18 Non Residential Energy Efficienct ITEE 19 Non Residential Energy Efficienct Tree 19 Non Residential Program 20 Smart Saver(R) Non Residential Performance Incentive Program 21 Small Business Energy Saver 22 Smart Energy in Offices 23 Total for Non-Residential Conservation Programs 24 EnergyWise for Business 25 PowerShare® 26 Total for Non-Residential DSM Programs	148 10,109 78 1,696 29,566 3 232 - 11 301 9,196 - 51,527	1,930,762 52,522,612 997,611 7,533,194 163,560,290 1,460,589 11,262 732,043 4,545,995 53,674,194 286,968,552	\$ 721,699 \$ 38,688,495 \$ 428,611 \$ 6,148,76 \$ 113,013,677 \$ 170,533 \$ 1,380 \$ 442,041 \$ 2,330,74 \$ 27,495,205 \$ 190,041,154	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	8,873,872 339,996 2,208,364 20,834,766 189,172 44,335 119,843 785,165 11,421,399 45,112,917 3,687,462 13,022,816 16,710,278	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	48,955 3,428,682 10,191 453,146 10,600,574 66,856 (4,940) 37,053 177,741 1,848,488 16,666,747	\$ 344,961 \$ 12,302,554 \$ 350,186 \$ 2,661,510 \$ 31,435,340 \$ 256,028 \$ 193,395 \$ 156,897 \$ 962,906 \$ 13,269,887 \$ 61,779,665 \$ 3,627,345 \$ 17,401,059 \$ 21,028,404	26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100%	58.787211% 15.100030%	E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22 E23 * F23	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	92,614 3,302,942 94,017 714,552 8,439,638 68,738 10,577 42,123 258,517 3,562,648 16,586,366
EE Programs 12 Non Residential Smart Saver Custom Technical Assessments 13 Non Residential Smart Saver Custom 14 Non Residential Smart Saver Energy Efficienct Food Service Products 15 Non Residential Smart Saver Energy Efficienct Hydt Products 16 Non Residential Smart Saver Energy Efficienct Lighting Froducts 17 Non Residential Smart Saver Energy Efficienct Ughting Froducts 18 Non Residential Energy Efficienct IPEE 19 Non Residential Energy Efficienct Process Equipment Product 20 Smart Saver(R) Non Residential Performance Incentive Program 21 Small Business Energy Saver 22 Smart Energy in Offices 23 Total for Non-Residential Conservation Programs	148 10,109 78 1,696 29,566 3 232 - 11 111 391 9,196 - 51,527	1,930,762 52,522,612 997,611 7,533,194 163,560,290 1,460,589 11,262 732,043 4,545,995 53,674,194 286,968,552	\$ 721,698 \$ 38,688,49! \$ 428,611 \$ 6,148,766 \$ 113,013,67; \$ 770,532 \$ 1,382 \$ 442,041 \$ 27,495,200 \$ 190,041,154	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	8,873,872 339,996 2,208,364 20,834,766 189,172 44,335 119,843 785,165 11,421,399 45,112,917	11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5% 11.5%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	48,955 3,428,682 10,191 453,146 10,600,574 66,856 (4,940) 37,053 177,741 1,848,488 16,666,747	\$ 344,961 \$ 12,302,554 \$ 350,186 \$ 2,661,510 \$ 31,435,340 \$ 256,028 \$ 39,395 \$ 156,897 \$ 962,906 \$ 13,269,887 \$ 61,779,665	26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100% 26.8476100%		E13 * F13 E14 * F14 E16 * F16 E17 * F17 E18 * F18 E19 * F19 E20 * F20 E21 * F21 E22 * F22 E23 * F23	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	92,614 3,302,942 94,017 714,552 8,439,638 68,738 10,577 42,123 288,517 3,562,648 16,586,366

 ⁽¹⁾ My Home Energy Report impacts reflect cumulative capability as of end of vintage year.
 (2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Year 2019 Exhibit 3

Duke Energy Carolinas For the Period January 1, 2019 - December 31, 2019 Docket Number 2021-xx-E Allocation Factor Year 2019

			MWH		
Sales	Allocator - 2018				
1	NC Retail MWH Sales, at Generation	Company Records	62,147,533		
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	22,828,069		
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	84,975,602		
4	Greenwood Retail MWH Sales, at Generation	Company Records	52,719		
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	85,028,321		
	Allocation 1 to state based on kWh sales				
6	SC Retail	Line 2 / Line 5	26.84761%		
Dema	nd Allocators - 2018		NC MW	SC MW	Total MW
7	Residential	Company Records	5,420,002	1,681,673	7,101,675
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,373,991	2,398,790	8,772,781
9	Greenwood	Company Records	-	11,544	11,544
10	Total	Line 7 + Line 8+ Line 9	11,793,993	4,092,007	15,886,000
11	Wholesale Peak Demand	Company Records			1,603,545
12	Total System Peak Demand	Line 10 + Line 11			17,489,545
	Allocation 2 to state based on peak demand				
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total	25.68591%		
	Allocation 3 SC res vs non-res Peak Demand to retail syste	m peak			
14	SC Residential	Line 7,SC / Line 10 Total	10.58588%		
15	SC Non-residential	Line 8, SC / Line 10 Total	15.10003%		
	Allocation 4 SC res vs non-res Peak Demand to retail syste	m peak for Existing DSM			
16	SC Residential	Line 7,SC / Line 12 Total	9.61530%		
17	SC Non-residential	Line 8, SC / Line 12 Total	13.71557%		
1,	Se Hon residential	Line o, oc / Line 12 Total	13.7133770		

Duke Energy Carolinas

For the period January 1, 2020 - December 31, 2020

Docket Number 2021-xx-E Calculation of Year 2020 True up of Shared Savings, Y1 and Y2 Lost Revenue and Estimate Y3 Lost Revenues

Estimate of

	Residential Energy Efficiency Programs		Es	timate of
Line			Year 3 L	ost Revenues
1	Residential EE Program Cost	Year 2020 Exh 2 (B * F)		
2	Residential EE Earned Utility Incentive	Year 2020 Exh 2 (D * F)		
3	Total EE Program Cost and Incentive Components	Year 2020 Exh 2, Line 9		
4	Residential DSM Program Cost	Year 2020 Exh 2 (B * G)		
5	Residential DSM Earned Utility Incentive	Year 2020 Exh 2 (D * G)		
6	Total DSM Program Cost and Incentive Components	Year 2020 Exh 2, Line 10		
7	Residential Existing DSM Program Revenue Requirement Estimate	Year 2020 Exhibit 3, Line 3		
8	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7		
9	Revenue-related taxes and regulatory fees factor			
10	Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9		
11	Residential Net Lost Revenues	R13 Exh 1 pages 1-6	\$	2,409,773
12	Total Residential EE Revenue Requirement	Line 10 + Line 11		2,409,773
13	Estimated Revenues Collected	R13 Exh 2, Line 4		
14	Residential EE Revenue Requirement	Line 12 - Line 13	\$	2,409,773
15	Estimated Interest to be Recovered	R13 Exh 4 page 2 of 6, Line 25		
16	Estimated Residential EE/DSM Revenue Requirement True Up	Line 14 + Line 15	\$	2,409,773

	True-up to be Collected	Rider 12 Year 2	Rider 11
Year 2020	in Rider 13	Lost Revenue Estimate	Year 2020 Estimate
13,708,848	\$ \$ 1,145,663		\$ 12,563,185
1,850,191	454,210		1,395,981
15,559,039	1,599,873		13,959,166
2,982,887	(889,474)		3,872,361
1,244,486	(75,092)		1,319,578
4,227,373	(964,566)		5,191,939
360,261	(158,267)		518,528
20,146,673	477,040		19,669,633
	1.005364		1.004450
20,236,758	479,599		19,757,158
10,687,781	2,873,097	1,975,653	5,839,031
30,924,538	3,352,696	1,975,653	25,596,189
28,120,804			
2,803,734	\$		
281,889			
3,085,624	\$		

See Exhibit A for rate

		Reference	Year 3 Los	t Revenues
17	Non- Residential EE Program Cost	Year 2020 Exh 2 (B * F)		
18	Non-Residential EE Earned Utility Incentive	Year 2020 Exh 2 (D * F)		
19	Total EE Program Cost and Incentive Components	Year 2020 Exh 2, Line 23		
20	Revenue-related taxes and regulatory fees factor			
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 19 * Line 20		
22	Non-Residential Net Lost Revenues	R13 Exh 1 pages 1-6	\$	2,751,070
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22		2,751,070
24	Estimated Revenues Collected	R13 Exh 2, Line 12		
25	Non-Residential EE Revenue Requirement	Line 23 + Line 24	\$	2,751,070

29	SC Non-Residential EE billing factor (Cents/kWh)	Line 27 / Line 28 * 100	0.0519
28	,	R13 Exhibit 3 Page 1 of 2, Line 14	5,304,825,79
27	Estimated Non-Residential EE Revenue Requirement True-Up with Interest	Line 25 + Line 26	\$ 2,751,070
26	Estimated Interest to be Recovered	R13 Exh 4 page 6 of 6, Line 12	
25	Non-Residential EE Revenue Requirement	Line 23 + Line 24	\$ 2,751,070
24	Estimated Revenues Collected	R13 Exh 2, Line 12	
23	Total Non-Residential EE Revenue Requirement	Line 21 + Line 22	2,751,070
22	Non-Residential Net Lost Revenues	R13 Exh 1 pages 1-6	\$ 2,751,070
21	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 19 * Line 20	
20	Revenue-related taxes and regulatory fees factor		
19	Total EE Program Cost and Incentive Components	Year 2020 Exh 2, Line 23	
18	Non-Residential EE Earned Utility Incentive	Year 2020 Exh 2 (D * F)	
17	Non- Residential EE Program Cost	Year 2020 Exh 2 (B * F)	

ı		ed	True-up to be Collecte	Rider 12 Year 2	Rider 11
ı	Year 2020		in Rider 13	Lost Revenue Estimate	Year 2020 Estimate
1	\$ 8,037,254	(60	\$ (6,082,3		\$ 14,119,560
	2,844,698	(61)	(1,248,2		4,092,959
1	10,881,952	68)	(7,330,5		18,212,519
		864	1.0053		1.004450
ŀ	10,923,673	889)	(7,369,8		18,293,562
ı	4,243,353	137)	(920,4	3,314,813	1,848,976
	15,167,026	(25	(8,290,3	3,314,813	20,142,538
ı	18,526,872				
Ī	\$ (3,359,846)	Ī			
۱	(337,814)				
1	\$ (3,697,660)				
ŀ	5,304,825,796				
1	(0.0697)	Ī			

Non- Residential DSM Programs

Non-Residential Energy Efficiency Programs

42	SC Non-Residential DSM billing factor	Line 40 / Line 41 * 100
41	,	R13 Exhibit 3 Page 1 of 2, Line 1
40	Estimated Non-Residential DSM Revenue Requirement True Up after Interest	Line 38 + Line 39
39	Estimated Interest Due	R13 Exh 4 Page 6 of 6, Line 25
38	Non-Residential DSM Revenue Requirement	Line 36 - Line 37
37	Estimated Revenues Collected	R13 Exhibit 2, Line 20
36	Total Non-Residential DSM Program Cost and Incentive Revenue Requirements	Line 34 * Line 35
35	Revenue-related taxes and regulatory fees factor	
34	Total DSM Revenue Requirement	Line 32 + Line 33
33	Non- Residential Existing DSM Program Revenue Requirement Estimate	Year 2020 Exh 3, Line 3
32	Total DSM Program Cost and Incentive Components	Year 2020 Exh 2, Line 26
31	Non-Residential DSM Earned Utility Incentive	Year 2020 Exh 2 (C * D)
30	Non- Residential DSM Program Cost	Year 2020 Exh 2 (B * G)

		Rider 11 True up to be Collected					
Year 2020 Revenue							
Requirement True up		in Rider 13	Year 20 Estimate				
4,564,63	\$	\$ (1,573,782)	6,138,419	\$			
1,904,40	1	(187,373)	2,091,779				
6,469,04	1	(1,761,155)	8,230,198				
551,29	1	(270,665)	821,964				
7,020,34	1	(2,031,820)	9,052,163				
		1	1.004450				
7,049,72	1	(2,042,718)	9,092,443				
7,067,11							
(17,39							
(1,74							
(19,14	\$						
6,254,126,75	1						
(0.000							

 $^{^{\,1}}$ Details outlining the change in the program cost and incentive component can be found in Year 2020 Exh 2.

Updated lost revenues by year can be found in R13 Exh 1 pages 1-6. Year 2020 has been updated with most recent participation. Year 3 Lost Revenues are shown as an estimate. They will be trued up in Rider 14.

Duke Energy Carolinas Evans Exhibit 1, page 2 Vintage 2020 True Up - January 1, 2020 to December 31, 2020

Docket Number E-2020-xxxx Load Impacts and Estimated Revenue Requirements by Program

=(A-B)*C = (B+D) System kW System NPV of Avoided System Revenue Reduction - Summe SC Retail kWh Sales SC Allocation SC Residential Revenue System Energy **Total Cost** Shared Savings % Costs Requirement Reduction (kWh) **Residential Programs** Peak Allocation Factor Factor (2) Requirement **EE Programs** F1 * F1 306 774 1 415 563 1 113 485 34 739 1 148 224 26 7173100% 1 Energy Efficiency Education 424 3 380 325 11 5% 2 Energy Efficient Appliances and Devices 15.786 111.202.880 65.030.621 22.124.101 11.5% 4.934.250 27.058.351 26.7173100% E2 * F2 7.229.263 2,190 8,675,026 7,563,287 11.5% 127,850 7,691,137 26.7173100% E3 * F3 2,054,865 3 HVAC Energy Efficiency 7,689,428 4 Low Income Energy Efficiency and Weatherization Assistance 244 2,166,300 1,213,203 2,787,490 0.0% 2,787,490 26.7173100% E4 * F4 744,742 5 Multi-Family Energy Efficiency 522 4,042,084 2,336,077 1,613,839 11.5% 83,057 1,696,897 26.7173100% E5 * F5 453,365 6 Residential Energy Assessments 944 7,891,628 4,805,281 3,358,880 11.5% 166,336 3,525,216 26.7173100% E6 * F6 941,843 7 Total for Residential Conservation Programs 20.109 136,372,643 83,475,771 38,561,083 5,346,232 43,907,315 11,730,852 8 My Home Energy Report 92,401 332,105,411 26,478,626 12.749.651 11.5% 1,578,832 14,328,483 26.7173100% F8 * F8 3,828,185 9 Total Residential Conservation and Behavioral Programs 112,511 468,478,054 109.954.397 51,310,734 6.925.064 58,235,798 15,559,037 SC Residential Peak **Demand Allocation Factor** 10 Power Manager® 23,106,215 25.7355200% 39.521409% (E10+E26) *F10 *G10 593,227 90,850,564 14,303,277 8,802,938 4,227,373 11 Total Residential 705,737 468,478,054 200,804,961 15,728,002 81,342,013 10.171040% System kW System NPV of Avoided Total Cost SC Retail kWh Sales SC Non-Residential Revenue Reduction - Summer System Energy Shared Savings % Incentive Requirement Peak Reduction (kWh) Allocation Factor Requirement **Non-Residential Programs EE Programs** 12 Non Residential Smart Saver Custom Technical Assessments 76 1,413,836 536,838 330,629 11.5% 23,714 354,343 26.7173100% E12 * F12 94,671 26 7173100% F13 * F13 13 Non Residential Smart Saver Custom 4.785 21 156 703 17 230 679 5 771 790 11 5% 1 317 772 7 089 562 1 894 140 14 Non Residential Smart Saver Energy Efficienct Food Service Products 499,398 26.7173100% E14 * F14 133,426 35 502.870 237.649 533.411 11.5% (34.013) 15 Non Residential Smart Saver Energy Efficienct HVAC Products 1.682 9.270.812 8.367.663 2.450.713 11.5% 3.131.163 26.7173100% E16 * F16 836.562 680,449 16 Non Residential Smart Saver Energy Efficienct Lighting Products 18,364 109,554,291 76,684,303 13,098,851 11.5% 7,312,327 20,411,178 26.7173100% E17 * F17 5,453,318 17 Non Residential Smart Saver Energy Efficienct Pumps and Drives Products 225 1,402,429 808,634 167,464 11.5% 73,735 241,199 26.7173100% E18 * F18 64,442 18 Non Residential Energy Efficienct ITEE 9,917 1,728 15,179 11.5% (1,547) 13,632 26.7173100% E19 * F19 3,642 19 Non Residential Smart Saver Energy Efficienct Process Equipment Products 206 567.122 262,281 29,681 11.5% 26,749 56,430 26.7173100% E20 * F20 15,077 20 Smart \$aver(R) Non Residential Performance Incentive Program 223 5.961.326 2.098.066 751.724 11.5% 154.829 906,553 26.7173100% E21 * F21 242.207 21 Small Business Energy Saver 5.560 30.611.745 16,440,784 6.933.130 11.5% 1.093.380 8.026.510 26.7173100% F22 * F22 2,144,468 22 Smart Energy in Offices 11.5% 26 7173100% E23 * F23 23 Total for Non-Residential Conservation Programs 31,156 180.451.052 122,668,624 30,082,572 10.647.396 40,729,968 10,881,953 SC Non-Residential Peak Demand Allocation Factor 24 EnergyWise for Business 11,791 1,297,238 2,515,334 2,941,282 11.5% (48,984) 2,892,298 25.7355200% 25 PowerShare® 276,583 42,357,719 12,082,697 11.5% 3,481,628 15,564,324 25.7355200% 26 Total for Non-Residential DSM Programs 1.297.238 (F10+F26) *F26 *G26 6.469.044 288,374 44,873,053 15,023,979 3,432,644 18,456,622 25.7355200% 60.478630% 15.564490% 59,186,590 17,350,997 27 Total Non Residential 319.530 181.748.291 167.541.677 45.106.551 \$ 14.080.039 28 Total All Programs 368,346,638 110,720,562 29,808,042 140,528,603 37,137,406 1,025,268 650,226,345

⁽¹⁾ My Home Energy Report impacts reflect cumulative capability as of end of vintage year.
(2) Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Duke Energy Carolinas For the Period January 1, 2020 - December 31, 2020 Docket Number 2021-xx-E Actual Existing DSM Program Costs - Year 2020

					Year 2020		
1 Actual total IS/SG credits to be paid for native load programs	Line 9	\$	3,922,381				
				R	esidential	Non-residential	
2 SC retail allocation factor - system peak demand	Year 2020 Exhibit 4,	ine 16, 17			9.18476%	14.05522	2%
3 SC retail share IS/SG program costs	Line 1 * Line 2			\$	360,261	\$ 551,29	9

PROGRAM	Jan - Dec 20	20 Credits Paid
4 INTERRUPTIBLE SERVICE CREDITS	\$	2,535,864
5 STANDBY GENERATOR PAYMENTS		55,167
6 WHOLESALE A/C LOAD CONTROL CREDITS		336,352
7 WHOLESALE INTERRUPTIBLE SERVICE CREDITS		994,998
8 Wholesale Penalties		
9 TOTAL CREDITS	\$	3,922,381

Note: Regulatory fee to be added to total revenue requirement on Vintage Year Exhibit.

Duke Energy Carolinas For the Period January 1, 2020 - December 31, 2020 Docket Number 2021-xx-E Allocation Factor Year 2020

			MWH		
Sales	Allocator - 2019				
1	NC Retail MWH Sales, at Generation	Company Records	61,250,523		
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	22,349,369		
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	83,599,893		
4	Greenwood Retail MWH Sales, at Generation	Company Records	51,374		
5	Total Retail, including Greenwood, at Generation	Line 3 + Line 4	83,651,267		
	Allocation 1 to state based on kWh sales				
6	SC Retail	Line 2 / Line 5	26.71731%		
Dema	nd Allocators - 2019		NC MW	SC MW	Total MW
7	Residential	Company Records	5,410,460	1,632,146	7,042,606
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,495,667	2,497,633	8,993,300
9	Greenwood	Company Records	-	11,094	11,094
10	Total	Line 7 + Line 8+ Line 9	11,906,127	4,140,873	16,047,000
11	Wholesale Peak Demand	Company Records			1,723,147
12	Total System Peak Demand	Line 10 + Line 11			17,770,147
	Allocation 2 to state based on peak demand				
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total	25.73552%		
	Allocation 3 SC res vs non-res Peak Demand to retail peak				
14	SC Residential	Line 7,SC / Line 10 Total	10.17104%		
15	SC Non-residential	Line 8, SC / Line 10 Total	15.56449%		
	Allocation 4 SC res vs non-res Peak Demand to retail syste	m peak for Existing DSM			
16	SC Residential	Line 7,SC / Line 12 Total	9.18476%		
17	SC Non-residential	Line 8, SC / Line 12 Total	14.05522%		
	50 co. co. co. co. co. co. co. co	2 3, 30 / Ellie 12 10tal	15552270		

Duke Energy Carolinas For the Period January 1, 2020 - December 31, 2020 Docket Number 2021-xx-E Actual Program Costs - Year 2020

	Jar	System Costs Months of nuary 1, 2020 - ember 31, 2020	Residential	No	on-Residential
Energy Efficiency (EE) Programs:					
1 Residential Energy Assessments	\$	3,358,880	3,358,880		
2 My Home Energy Report		12,749,651	12,749,651		
3 Energy Efficient Appliances and Devices		22,124,101	22,124,101		
4 Residential – Smart \$aver Energy Efficiency Program		7,563,287	7,563,287		
5 Income Qualified Energy Efficiency and Weatherization Assistance		2,787,490	2,787,490		
6 Multi family Energy Efficiency		1,613,839	1,613,839		
7 Energy Efficiency Education		1,113,485	1,113,485		
8 Nonresidential Smart Saver Custom Energy Assessments		330,629			330,629
9 Non-Residential Smart Saver Custom		5,771,790			5,771,790
10 Non-Residential Smart Saver Performance Incentive		751,724			751,724
11 Non-Residential Energy Efficient Food Service Products		533,411			533,411
12 Non-Residential Smart Saver Energy Efficient HVAC Products		2,450,713			2,450,713
13 Non-Residential Smart Saver Energy Efficient Lighting Products		13,098,851			13,098,851
14 Nonresidential Energy Efficient Pumps and Drives Products		167,464			167,464
15 Nonresidential Energy Efficient ITEE		15,179			15,179
16 Nonresidential Energy Efficient Process Equipment Products		29,681			29,681
17 Small Business Energy Saver		6,933,130			6,933,130
18 Subtotal EE Program Costs	\$	81,393,307	\$ 51,310,734	\$	30,082,573
Demand-Side Management (DSM) Programs:					
19 Power Manager	\$	14,303,277	\$ 14,303,277		
20 EnergyWise for Business		2,941,282			2,941,282
21 Power Share		12,082,697			12,082,697
22 Subtotal DSM Program Costs	\$	29,327,255	\$ 14,303,277	\$	15,023,979
23 Total EE & DSM Program Costs - Year 2020	\$	110,720,562	\$ 65,614,011	\$	45,106,551

Duke Energy Carolinas Changes to DSM/EE Cost Recovery Vintage 2020 True Up January 1, 2020 - December 31, 2020 Changes from Prior Filing Due to Application of M&V and Participation System kWh and kW impacts Net Free Riders at the Plant

Residential Programs

	Filed in Do	cket	Filed in Docke	et								Variance attributa	ble to Mix of	Variance attrib	utable to		
	2018-72	-E	2020-72-E		Overall Vari	ance	2018-72-E	2020-XX-E	Delta	Variance attributable t	to Participation	Measur	es	EM&V	•	Sum of Varia	ances
Program Name	kWh	kW	kWh	kW	kWh	kW	System Part	icipation	Participation	kWh	kW	kWh	kW	kWh	kW	kWh	kW
Energy Efficiency Education Program for Schools	7,034,771	1,652	3,380,325	424	(3,654,446)	(1,228)	32,950	12,479	(20,471)	(4,370,509)	(1,026)		-	716,063	(202)	(3,654,446)	(1,228)
Energy Efficient Appliances and Devices	48,945,880	11,244	111,202,880	15,786	62,256,999	4,542	1,713,362	5,311,571	3,598,209	57,014,754	7,819	3,190,951	904	2,051,294	(4,181)	62,256,999	4,542
Residential – Smart \$aver Energy Efficiency Program	8,869,809	2,458	7,689,428	2,190	(1,180,381)	(268)	28,894	27,153	(1,741)	(1,180,381)	(268)	-	-	0	0	(1,180,381)	(268)
Income Qualified Energy Efficiency and Weatherization Assistance	4,245,993	653	2,166,300	244	(2,079,693)	(409)	10,406	2,255	(8,151)	(2,648,251)	(466)	-	-	568,558	57	(2,079,693)	(409)
Multi-Family Energy Efficiency	20,180,190	2,146	4,042,084	522	(16,138,106)	(1,624)	368,226	98,419	(269,807)	(15,353,462)	(1,610)	14,749	2	(799,393)	(17)	(16,138,106)	(1,624)
Energy Assessments	6,119,618	725	7,891,628	944	1,772,010	220	26,118	64,125	38,007	870,208	102	901,802	118	-	-	1,772,010	220
My Home Energy Report	306,337,865	77,745	332,105,411	92,401	25,767,546	14,656	1,355,300	1,358,892	3,592	1,832,519	462	-	-	23,935,027	14,194	25,767,546	14,656
PowerManager	-	616,237		593,227	· · · · ·	(23,011)	580,159	558,495	(21,663)		(48,038)	-	25,028	-		-	(23,011)
Residential Programs Total	401,734,126	712,860	468,478,054	705,737	66,743,928	(7,123)	4,115,415	7,433,389	3,317,975	36,164,877	(43,025)	4,107,502	26,052	26,471,549	9,851	66,743,928	(7,123)
Non-Residential Programs																	

	Filed in Do	cket	Filed in Dock	et								Variance attributal	ole to Mix of	Variance attrib	utable to		
	2020-72	-E	2020-72-E		Overall Vari	ance	2018-72-E	2020-XX-E	Delta	Variance attributable	to Participation	Measure	es	EM&V		Sum of Varia	nces
Program Name	kWh	kW	kWh	kW	kWh	kW	System Part	icipation	Participation	kWh	kW	kWh	kW	kWh	kW	kWh	kW
Non Residential Smart Saver Custom Technical Assessments	7,950,216	908	1,413,836	76	(6,536,379)	(831)	5,064	5	(5,059)	-	-	(6,536,379)	(831)	-	-	(6,536,379)	(831)
Non Residential Smart Saver Custom	67,082,262	7,658	21,156,703	4,785	(45,925,559)	(2,873)	45,866	10,153	(35,713)	-	-	(45,925,559)	(2,873)		-	(45,925,559)	(2,873)
Non Residential Smart Saver Energy Efficient Food Service Products	4,363,034	288	502,870	35	(3,860,164)	(252)	9,091	1,430	(7,661)	(2,850,954)	(161)	(1,048,848)	(91)	39,638	(1)	(3,860,164)	(252)
Non Residential Smart Saver Energy Efficient HVAC Products	2,546,698	756	9,270,812	1,682	6,724,115	925	2,537,729	4,349,144	1,811,415	499,676	222	5,204,718	416	1,019,721	288	6,724,115	925
Non Residential Smart Saver Energy Efficient Lighting Products	131,137,431	23,878	109,554,291	18,364	(21,583,139)	(5,514)	1,299,824	2,726,149	1,426,325	(43,422,800)	(8,179)	16,654,297	2,412	5,185,363	253	(21,583,139)	(5,514)
Non Residential Energy Efficient Pumps and Drives Products	4,603,201	730	1,402,429	225	(3,200,772)	(505)	4,102	1,172	(2,930)	(3,558,030)	(551)	31,604	(9)	325,653	54	(3,200,772)	(505)
Non Residential Energy Efficient ITEE	323,520	-	9,917	-	(313,603)	-	5,135	118	(5,017)	(316,086)	-	-	-	2,483	-	(313,603)	-
Non Residential Energy Efficient Process Equipment Products	547,055	85	567,122	206	20,067	121	4,260	948	(3,312)	(236,168)	(36)	231,761	153	24,474	4	20,067	121
Non Residential Smart Saver Performance Incentive	22,097,800	2,797	5,961,326	223	(16,136,474)	(2,574)	26,334,797	67	(26,334,730)	-	-	(16,136,474)	(2,574)	-	-	(16,136,474)	(2,574)
Smart Energy in Offices		-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
Small Business Energy Saver	50,048,128	8,756	30,611,745	5,560	(19,436,382)	(3,196)	47,000,000	29,123,529	(17,876,471)	(19,692,802)	(3,196)	-	-	256,420	0	(19,436,382)	(3,196)
Business Energy Report		-	-	-	-	-	-	-	-	-	-	-	-	-	-		-
EnergyWise for Business	2,557,590	17,397	1,297,238	11,791	(1,260,351)	(5,606)	20,180	13,084	(7,096)	(1,260,351)	(5,910)	-	-	-	304	(1,260,351)	(5,606)
PowerShare		342,625	-	276,583	-	(66,042)	322,565	260,390	(62,175)	-	-	-	(66,042)	-	-		(66,042)
Non-Residential Programs Total	293,256,933	405,879	181,748,291	319,530	(111,508,643)	(86,348)	77,588,613	36,486,189	(41,102,424)	(70,837,516)	(17,811)	(47,524,880)	(69,439)	6,853,753	902	(111,508,643)	(86,348)
Total Residential and Non-Residential Programs	694,991,059	1,118,739	650,226,345	1,025,268	(44,764,714)	(93,471)	81,704,028	43,919,579	(37,784,449)	(34,672,639)	(60,837)	(43,417,377)	(43,387)	33,325,302	10,753	(44,764,714)	(93,471)

NOTE - The actual per unit impacts are reflective of the following EM&V reports:

Program Name As Filed	Docket	Report Reference	Effective Date
Energy Efficient Appliances and Devices	2021-xx-E	Save Energy and Water Kits 2018 – 2019 Evaluation Report	9/1/2019
Multifamily Energy Efficiency Program	2021-xx-E	EM&V Report for the Duke Energy Multifamily Energy Efficiency Program	6/1/2018 (Water); 7/1/19 (Lighting)
Non-Residential Smart Saver Program	2021-xx-E	Duke Energy Carolinas and Duke Energy Progress Non-Residential Smart \$aver Prescriptive Program Evaluation Report	8/1/2019

Year 2 Projections

Duke Energy Carolinas Docket Number 2021-xx-E Calculation of Year 2021 Estimate of Lost Revenues Year 2

Reference

Residential Energy Efficiency Programs

Line

1	Residential Net Lost Revenues - Year 2	R13 Exh 1 pages 1-6	\$2,355,565
2	Projected SC Residential Sales (kWh)	R13 Exh 3 Page 1 of 2, Line 3	6,540,330,420
3	SC Residential EE Billing Factor (Cents/kWh)	Line 1 / Line 2	0.0360
	Non-Residential Energy Efficiency Programs		
Line		Reference	Year 2 Projections
Line 4		Reference R13 Exh 1 pages 1-6	Year 2 Projections \$4,194,740
_			· -

Year 2022 Exhibit 1, Page 1

Duke Energy Carolinas Docket Number 2021-xx-E Calculation of Year 2022 Estimate of Earned Utility Savings and Year 1 Lost Revenues

Energy Efficiency Programs

Line		Reference	Year 1
1	Residential EE Program Cost	Year 2022 Exh 2 (B * J)	\$14,387,326
2	Residential EE Earned Utility Incentive	Year 2022 Exh 2, Line 9	1,449,375
3	Total EE Program Cost and Incentive Components	Year 2022 Exh 2, Line 9	15,836,701
4	Residential DSM Program Cost	Year 2022 Exh 2 (B * (I * J))	3,797,336
5	Residential DSM Earned Utility Incentive	Year 2022 Exh 2, Line 10	1,287,847
6	Total DSM Program Cost and Incentive Components	Year 2022 Exh 2, Line 10	5,085,183
7	Residential Existing DSM Program Revenue Requirement Estimate	Year 2020 Exhibit 3, Line 3	360,261
8	Total EE/DSM Program Cost and Incentive Components	Line 3 + Line 6+ Line 7	21,282,145
9	Revenue-related taxes and regulatory fees factor		1.005364
10	Total EE Program Cost and Incentive Revenue Requirement	Line 8 * Line 9	21,396,303
11	Residential Net Lost Revenues	R13 Exh 1 pages 1-6	7,452,684
12	Total Residential EE Revenue Requirement	Line 10 + Line 11	28,848,987
13	Projected SC Residential Sales (kWh)	R13 Exh 3 Page 1 of 2, Line 3	6,540,330,420
14	SC Residential EE Billing Factor (Cents/kWh)	Line 12 / Line 13*100	0.4411

Year 2022 Exhibit 1, Page 2

Year 1

Duke Energy Carolinas Docket Number 2021-xx-E Calculation of Year 2022 Estimated Earned Utility Savings and Year 1 Lost Revenues

Non-Residential Energy Efficiency Programs

Line	2	Reference	Year 1
1	Non- Residential EE Program Cost	Year 2022 Exh 2 (B * I), Line 22	\$17,980,248
2	Non-Residential EE Earned Utility Incentive	Year 2022 Exh 2, Line 22	4,471,420
3	Total EE Program Cost and Incentive Components	Line 1 + Line 2	22,451,668
4	Revenue-related taxes and regulatory fees factor		1.005364
5	Total Non-Residential EE Program Cost and Incentive Revenue Requirements	Line 3 * Line 4	22,572,099
6	Non-Residential Net Lost Revenues	R13 Exh 1 pages 1-6	2,699,543
7	Total Non-Residential EE Revenue Requirement	Line 5 + Line 6	25,271,642
8	Projected SC Non-Residential Sales (kWh)	R13 Exh 3 Page 1 of 2, Line 18	5,318,242,897
9	SC Non-Residential EE billing factor (Cents/kWh)	Line 7 / Line 8 * 100	0.4752

Non- Residential DSM Programs

10	Non-Residential DSM Program Cost	Year 2022 Exh 2, Line 10 + Line 25	\$5,810,968
11	Non-Residential DSM Earned Utility Incentive	Year 2022 Exh 2, Line 10 + Line 25	1,970,761
12	Total Non-Residential DSM Program Cost and Incentive Components	Line 10 + Line 11	7,781,729
13	Non-Residential Existing DSM Program Revenue Requirement	Year 2020 Exhibit 3, Line 3	551,299
14	Total Non-Residential SAW & Existing DSM Program Revenue Requirement	Line 12 + Line 13	8,333,028
15	Revenue-related taxes and regulatory fees factor		1.005364
16	Total Non-Residential DSM Revenue Requirement	Line 14 * Line 15	8,377,727
17	Projected SC Non-Residential Sales (kWh)	R13 Exh 3 page 1 of 2, Line 19	6,254,963,836
18	SC Non-Residential DSM billing factor	line 16 / Line 17 * 100	0.1339

2021-76-E

ı Page

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Year 2022 Exhibit 2

F

Duke Energy Carolinas Exhibit 1, page 2

С

Vintage 2022 Estimate - January 1, 2022 to December 31, 2022 Docket Number

Load Impacts and Estimated Revenue Requirements by Program

=A*C =(A-B)*C = (B+D+G) System kW System kW System NPV of Avoided SC Revenue Reduction - Summer Reduction - Winter System Energy SC Retail kWh Sales SC Allocation SC PPI Shared Savings % SC PPI Cap Reduction **Residential Programs** Reduction (kWh) Costs Requirement Peak Peak Allocation Factor Factor (2) **EE Programs** 1 Energy Efficiency Education 1,037 1,464 8,276,026 3,470,261 2,418,940 10.6% 26.7173100% 646,276 29,774 676,050 2 Energy Efficient Appliances and Devices 7,685 6,005 78,229,772 36,050,247 16,096,321 10.6% 26.7173100% 4,300,504 565,102 4,865,606 3 HVAC Energy Efficiency 1.461 1,735 5.457.654 6.207.091 5.570.039 10.6% 26.7173100% 1.488.165 18.042 1.506.206 7.132.352 201.991 4 Low Income Energy Efficiency and Weatherization Assistan 1.954 2.111 9.754.693 8.762.135 10.6% 26.7173100% 2.341.007 2.542.997 5 Multi-Family Energy Efficiency 1,073,955 2.392 3.242 18,499,000 10.524.628 3.248.419 10.6% 26.7173100% 867.890 206.065 6 Residential Energy Assessments 1,605 1,176 14,772,690 8,040,674 5,602,448 10.6% 26.7173100% 1,496,823 69,051 1,565,875 7 Total for Residential Conservation Programs 16,134 134,989,835 71,425,254 41,698,303 11,140,665 201.991 12,230,689 3,606,012 8 My Home Energy Report (1) 92,478 80.682 333,200,740 24.840.690 12.151.901 10.6% 26.7173100% 3.246.661 359.351 Marc 9 Total Residential Conservation and Behavioral Programs 96,416 201,991 15,836,701 108,612 96,265,944 14,387,326 1,247,385 468,190,575 53,850,203 SC Residential Peak Demand Allocation Factor 599,074 100,328,186 19,286,677 10.6% 39.521409% 4,963,527 5,085,183 10 PowerManager 14,521 25.7355200% 2,210,784 11 Total Residential 707,687 110,937 468,190,575 196,594,130 73,136,880 19,350,852 201,991 3,458,169 (141,249) 20,780,635 System kW System kW System NPV of Avoided SC Revenue System Energy Reduction - Summer Reduction - Winter **Total Cost** Shared Savings % SC Retail kWh Sales SC Allocated Total Cost SC PRI SC PPI SC PPI Cap Reduction Requirement Costs Peak Peak Reduction (kWh) Allocation Factor Non-Residential Programs **EE Programs** 12 Non Residential Smart Saver Custom Technical Assessment 611 611 5.350.493 2.931.451 1.491.649 10.6% 26.7173100% 398,529 40.776 439.304 13 Non Residential Smart Saver Custom 6,621 6,621 46.402.377 27,891,905 9,652,719 10.6% 26.7173100% 2.578.947 516.540 3,095,487 1,588,593 687,837 26.7173100% 14 Non Residential Smart Saver Energy Efficienct Food Service 135 128 294,970 10.6% 78.808 11.126 89.934 15 Non Residential Smart Saver Energy Efficienct HVAC Produc 2,920 2,211 15,862,098 10,725,643 3,423,623 10.6% 26.7173100% 914,700 206,796 1,121,496 16 Non Residential Smart Saver Energy Efficienct Lighting Prod 30,254 29,909 168,159,774 115,732,296 29,893,490 10.6% 26.7173100% 7,986,736 2,430,985 10,417,721 17 Non Residential Smart Saver Energy Efficienct Pumps and D 371 379 2,468,639 1.220.632 402.620 10.6% 26.7173100% 107.569 23,166 130,736 18 Non Residential Energy Efficienct ITEE 95.047 16.421 28.075 10.6% 26.7173100% 7.501 (330) 7.171 19 Non Residential Smart Saver Energy Efficienct Process Equil 174 161 1,089,905 611,783 255,128 10.6% 26.7173100% 68,163 10,101 78,264 20 Smart \$aver(R) Non Residential Performance Incentive Prog 805 805 7,050,429 3,612,219 2,120,079 10.6% 26.7173100% 566,428 42.258 608,686 21 Small Business Energy Saver 20,736 12,711 98,041,785 61.755.127 19,735,769 10.6% 26.7173100% 5.272.866 1,190,003 6,462,869 22 Total for Non-Residential Conservation Programs 62,628 53.536 346,109,141 225,185,313 67,298,122 17.980.248 4.471.420 22,451,668 SC Non-Residential Peak **Demand Allocation Factor** 23 EnergyWise for Business 17,103 2,496 2,862,462 5,138,085 10.6% 1,322,313 (62,078) 1,722,729.80 320,236 297,820 53,596,049 12,910,020 10.6% 3,322,461 1,109,901 6,058,999.22 25 Total for Non-Residential DSM Programs 337,339 300,316 56,458,512 18,048,105 25.7355200% 60.478630% 4,644,774 1,047,822 7,781,729 Ø, 5,519,243 29,126,033 26 Total Non Residential 399,967 353,852 346,109,141 281,643,825 85,346,227 22,625,021 (1,107,364) \$ 158,483,107 27 Total All Programs 1,107,654 464,789 814,299,715 478,237,955 41,975,874 201,991 8,977,412 (1,248,612) 49,906,669

⁽¹⁾ My Home Energy Report impacts reflect cumulative capability as of end of vintage year, including impacts for participants from prior vintages

⁽²⁾ Total System DSM programs allocated to Residential and Non-Residential based on contribution to retail system peak

Duke Energy Carolinas For the Period January 1, 2020 - December 31, 2020 Docket Number 2021-xx-E

Allocation Factor Year 2020 and used for Estimate of Year 2022

			MWH		
Sales	Allocator - 2019				
1	NC Retail MWH Sales, at Generation	Company Records	61,250,523		
2	SC Retail MWH Sales (Excl. Greenwood), at Generation	Company Records	22,349,369		
3	Total Retail, Excluding Greenwood, at Generation	Line 1 + Line 2	83,599,893		
4	Greenwood Retail MWH Sales, at Generation	Company Records	51,374		
5	Total Retail, including Greenwood, at Generation Allocation 1 to state based on kWh sales	Line 3 + Line 4	83,651,267		
6	SC Retail	Line 2 / Line 5	26.71731%		
Dema	nd Allocators - 2019		NC MW	SC MW	Total MW
7	Residential	Company Records	5,410,460	1,632,146	7,042,606
8	Non Residential (SC - Excl. Greenwood)	Company Records	6,495,667	2,497,633	8,993,300
9	Greenwood	Company Records	-	11,094	11,094
10	Total	Line 7 + Line 8+ Line 9	11,906,127	4,140,873	16,047,000
11	Wholesale Peak Demand	Company Records			1,723,147
12	Total System Peak Demand	Line 10 + Line 11			17,770,147
	Allocation 2 to state based on peak demand				
13	SC Retail, Excl. Greenwood	(Line 7, SC + Line 8, SC)/ Line 10 Total	25.73552%		
	Allocation 3 SC res vs non-res Peak Demand to retail syste	m peak			
14	SC Residential	Line 7,SC / Line 10 Total	10.17104%		
15	SC Non-residential	Line 8, SC / Line 10 Total	15.56449%		
	Allocation 4 SC res vs non-res Peak Demand to retail syste	m peak for Existing DSM			
16	SC Residential	Line 7,SC / Line 12 Total	9.18476%		
17	SC Non-residential	Line 8, SC / Line 12 Total	14.05522%		
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Duke Energy Carolinas For the Period January 1, 2017 - December 31, 2022 Docket Number 2021-xx-E South Carolina Lost Revenues Vintage Year 2017-2022

	Year 2017	201	7 (1/2 year) ^(a)		2018	2019		2020	2021	2022		Total
	Residential											
1	Appliance Recycling	\$	-	\$	- \$	-	\$				\$	-
2	Energy Efficiency Education		55,350		100,919	73,720	\$	24,409				254,398
3	Energy Efficient Appliances and Devices		1,245,721		2,448,502	1,788,945	\$	644,951				6,128,120
4	HVAC Energy Efficiency		53,370		92,335	67,438	\$	20,853				233,996
5	Low Income Energy Efficiency and Weatherization Assistance		45,063		76,672	56,016	\$	16,929				194,679
6	Multi-Family Energy Efficiency		128,050		209,178	152,600	\$	43,261				533,088
7	My Home Energy Report		3,641,670		-	-	\$	-				3,641,670
8	Residential Energy Assessments		84,808		150,158	109,684	\$	34,994				379,644
9	Total Lost Revenues	\$	5,254,032	\$	3,077,763 \$	2,248,404	\$	785,396			\$	11,365,594
10	Found Residential Revenue		-		-	-		-				-
11	Net Lost Residential Revenue	\$	5,254,032	\$	3,077,763 \$	2,248,404	\$	785,396			\$	11,365,594
	Non-Residential	201	7 (1/2 year) ^(a)		2018	2019		2020	2021	2022		Total
12	EnergyWise for Business	Ś	13.042	ė	38.047 \$	26.782	ė	12,375			\$	90,246
13	Non Residential Energy Efficienct ITEE	J	20		38,047 3	20,782	٠	12,373			Ş	84
14	Non Residential Smart Saver Custom		346,582		489,807	339,581		67,157				1,243,127
14	Non Residential Smart Saver Custom Technical Assessments		98,727		147,311	102,382		23,025				371,444
15	Non Residential Smart Saver Energy Efficienct Food Service Product		5.578		8.350	5,817		1,332				21,077
16	Non Residential Smart Saver Energy Efficienct HVAC Products		29,059		50,322	35,190		10,365				124,936
17	Non Residential Smart Saver Energy Efficienct Lighting Products		2,276,326		3,829,612	2,676,060		757,064				9,539,062
18	Non Residential Smart Saver Energy Efficienct Process Equipment P		4,423		15,012	10,313		4,921				34,668
19	Non Residential Smart Saver Energy Efficienct Pumps and Drives Pro		9,540	Ś	19.793	13,763		4,926				48,023
20	Small Business Energy Saver		832,006	\$	1,623,149	1,136,245		385,262				3,976,663
21	Smart Energy in Offices		73,273		27,109	-		-				100,382
22	Energy Management Information Systems					-		-				· -
23	Non Residential Smart Saver Performance Incentive		-	\$	-	-		-				-
24	Business Energy Report			\$								
25	Total Lost Revenues	\$	3,688,576	\$	6,248,546 \$	4,346,155	\$	1,266,434			\$	15,549,711
26	Found Non-Residential Revenue		-		-	-		-				-
27	Net Lost Residential Revenue		3,688,576		6,248,546	4,346,155		1,266,434				15,549,711

⁽a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

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	Year 2018 2	017 201	18 (1/2 year) ^(a)	2019	2020	2021	2022		Total
	Residential								
28	Appliance Recycling	\$	-	\$ -	\$ -	\$ -		\$	-
29	Energy Efficiency Education		41,156	92,505	94,488	51,165			279,314
30	Energy Efficient Appliances and Devices		1,525,153	3,463,649	3,538,113	1,932,422			10,459,336
31	HVAC Energy Efficiency		41,873	82,630	84,391	40,313			249,207
32	Low Income Energy Efficiency and Weatherization Assistance		61,921	105,228	107,510	42,238			316,898
33	Multi-Family Energy Efficiency		113,330	173,035	176,598	57,452			520,416
34	My Home Energy Report		4,062,061	-	-	-			4,062,061
35	Residential Energy Assessments		76,345	141,476	144,507	64,104			426,432
36	Total Lost Revenues	\$	5,921,839	\$ 4,058,525	\$ 4,145,607	\$ 2,187,694		\$	16,313,665
37	Found Residential Revenue		-	<u> </u>	-				-
38	Net Lost Residential Revenue	\$	5,921,839	\$ 4,058,525	\$ 4,145,607	\$ 2,187,694		\$	16,313,665
	Non-Residential		18 (1/2 year) ^(a)	2019	2020	2021	2022		Total
39	EnergyWise for Business	Ś	33.590	\$ 59.750	\$ 61,769	\$ 25,394		\$	180.504
40	Non Residential Energy Efficienct ITEE	Ý	69	316	327			Ÿ	960
41	Non Residential Smart Saver Custom		130,273						500
42				363 407	371 864	233 400			1 098 944
	Non Residential Smart Saver Custom Technical Assessments			363,407 2.010	371,864 2.069				1,098,944 6.049
43			1,799	2,010	2,069	171			6,049
43 44	Non Residential Smart Saver Energy Efficienct Food Service Products		1,799 5,253	2,010 9,114	2,069 9,378	171 3,799			6,049 27,544
	Non Residential Smart Saver Energy Efficienct Food Service Products Non Residential Smart Saver Energy Efficienct HVAC Products		1,799 5,253 18,852	2,010 9,114 50,582	2,069 9,378 52,179	171 3,799 31,711			6,049 27,544 153,325
44	Non Residential Smart Saver Energy Efficienct Food Service Products Non Residential Smart Saver Energy Efficienct HVAC Products Non Residential Smart Saver Energy Efficienct Lighting Products		1,799 5,253 18,852 1,889,248	2,010 9,114 50,582 3,179,271	2,069 9,378	171 3,799 31,711 1,255,494			6,049 27,544 153,325 9,603,466
44 45	Non Residential Smart Saver Energy Efficienct Food Service Products Non Residential Smart Saver Energy Efficienct HVAC Products		1,799 5,253 18,852	2,010 9,114 50,582	2,069 9,378 52,179 3,279,453	171 3,799 31,711 1,255,494 2,462			6,049 27,544 153,325
44 45 46	Non Residential Smart Saver Energy Efficienct Food Service Products Non Residential Smart Saver Energy Efficienct HVAC Products Non Residential Smart Saver Energy Efficienct Lighting Products Non Residential Smart Saver Energy Efficienct Process Equipment Products		1,799 5,253 18,852 1,889,248 2,580	2,010 9,114 50,582 3,179,271 5,059	2,069 9,378 52,179 3,279,453 5,114	171 3,799 31,711 1,255,494 2,462 9,042			6,049 27,544 153,325 9,603,466 15,215
44 45 46 47	Non Residential Smart Saver Energy Efficienct Food Service Products Non Residential Smart Saver Energy Efficienct HVAC Products Non Residential Smart Saver Energy Efficienct Lighting Products Non Residential Smart Saver Energy Efficienct Process Equipment Products Non Residential Smart Saver Energy Efficienct Process Equipment Products Non Residential Smart Saver Energy Efficienct Pumps and Drives Products		1,799 5,253 18,852 1,889,248 2,580 1,940	2,010 9,114 50,582 3,179,271 5,059 10,899	2,069 9,378 52,179 3,279,453 5,114 11,196	171 3,799 31,711 1,255,494 2,462 9,042 453,536			6,049 27,544 153,325 9,603,466 15,215 33,076
44 45 46 47 48	Non Residential Smart Saver Energy Efficienct Food Service Products Non Residential Smart Saver Energy Efficienct HVAC Products Non Residential Smart Saver Energy Efficienct Lighting Products Non Residential Smart Saver Energy Efficienct Process Equipment Products Non Residential Smart Saver Energy Efficienct Pumps and Drives Products Small Business Energy Saver		1,799 5,253 18,852 1,889,248 2,580 1,940 463,185	2,010 9,114 50,582 3,179,271 5,059 10,899 923,404	2,069 9,378 52,179 3,279,453 5,114 11,196 951,389	171 3,799 31,711 1,255,494 2,462 9,042 453,536			6,049 27,544 153,325 9,603,466 15,215 33,076 2,791,514
44 45 46 47 48 49	Non Residential Smart Saver Energy Efficienct Food Service Products Non Residential Smart Saver Energy Efficienct HVAC Products Non Residential Smart Saver Energy Efficienct Lighting Products Non Residential Smart Saver Energy Efficienct Process Equipment Products Non Residential Smart Saver Energy Efficienct Pumps and Drives Products Small Business Energy Saver Smart Saver(R) Non Residential Performance Incentive Program	\$	1,799 5,253 18,852 1,889,248 2,580 1,940 463,185 4,071	2,010 9,114 50,582 3,179,271 5,059 10,899 923,404 25,079	2,069 9,378 52,179 3,279,453 5,114 11,196 951,389 25,473	171 3,799 31,711 1,255,494 2,462 9,042 453,536 21,190		\$	6,049 27,544 153,325 9,603,466 15,215 33,076 2,791,514 75,813
44 45 46 47 48 49 50	Non Residential Smart Saver Energy Efficienct Food Service Products Non Residential Smart Saver Energy Efficienct HVAC Products Non Residential Smart Saver Energy Efficienct Lighting Products Non Residential Smart Saver Energy Efficienct Process Equipment Products Non Residential Smart Saver Energy Efficienct Process Equipment Products Small Business Energy Saver Smart Saver(R) Non Residential Performance Incentive Program Smart Energy in Offices	\$	1,799 5,253 18,852 1,889,248 2,580 1,940 463,185 4,071 19,846	2,010 9,114 50,582 3,179,271 5,059 10,899 923,404 25,079	2,069 9,378 52,179 3,279,453 5,114 11,196 951,389 25,473	171 3,799 31,711 1,255,494 2,462 9,042 453,536 21,190		\$	6,049 27,544 153,325 9,603,466 15,215 33,076 2,791,514 75,813 21,641

⁽a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

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	Year 2019	2017	2018	2019	(1/2 year) ^(a)	2020	2021	2022	Total
	Residential								
54	Energy Efficiency Education			\$	44,709 \$	99,280 \$	99,434 \$	54,081 \$	297,505
55	Energy Efficient Appliances and Devices				1,775,612	3,347,834	3,352,925	1,558,829	10,035,200
56	HVAC Energy Efficiency				42,742	87,329	87,466	44,285	261,822
57	Low Income Energy Efficiency and Weatherization Assistance				105,560	177,539	177,802	70,918	531,819
58	Multi-Family Energy Efficiency				135,322	236,343	236,761	99,809	708,235
59	My Home Energy Report				4,388,268	-	-	-	4,388,268
60	Residential Energy Assessments				86,798	160,444	160,691	72,860	480,793
61	Total Lost Revenues			\$	6,579,012 \$	4,108,769 \$	4,115,080 \$	1,900,781 \$	16,703,642
62	Found Residential Revenue				-	-			-
63	Net Lost Residential Revenue			\$	6,579,012 \$	4,108,769 \$	4,115,080 \$	1,900,781 \$	16,703,642
	Non-Residential		2018	2019	(1/2 year) ^(a)	2020	2021	2022	Total
			2018						
64	EnergyWise for Business		2018	2019 \$	33,354 \$	59,849 \$	59,019 \$	25,765 \$	177,988
65	EnergyWise for Business Non Residential Energy Efficienct ITEE		2018		33,354 \$ 86	59,849 \$ 152	59,019 \$ 150	25,765 \$ 64	177,988 451
65 66	EnergyWise for Business Non Residential Energy Efficienct ITEE Non Residential Smart Saver Custom		2018		33,354 \$ 86 126,171	59,849 \$ 152 247,138	59,019 \$ 150 242,538	25,765 \$ 64 118,228	177,988 451 734,074
65 66 67	EnergyWise for Business Non Residential Energy Efficienct ITEE Non Residential Smart Saver Custom Non Residential Smart Saver Energy Efficienct Food Service Product	ts	2018		33,354 \$ 86 126,171 9,500	59,849 \$ 152 247,138 19,679	59,019 \$ 150 242,538 19,433	25,765 \$ 64 118,228 10,021	177,988 451 734,074 58,633
65 66 67 68	EnergyWise for Business Non Residential Energy Efficienct ITEE Non Residential Smart Saver Custom Non Residential Smart Saver Energy Efficienct Food Service Product Non Residential Smart Saver Energy Efficienct HVAC Products	ts	2018		33,354 \$ 86 126,171 9,500 62,308	59,849 \$ 152 247,138 19,679 150,976	59,019 \$ 150 242,538 19,433 150,097	25,765 \$ 64 118,228 10,021 88,193	177,988 451 734,074 58,633 451,573
65 66 67 68 69	EnergyWise for Business Non Residential Energy Efficienct ITEE Non Residential Smart Saver Custom Non Residential Smart Saver Energy Efficienct Food Service Product Non Residential Smart Saver Energy Efficienct HVAC Products Non Residential Smart Saver Energy Efficienct Lighting Products		2018		33,354 \$ 86 126,171 9,500 62,308 1,517,432	59,849 \$ 152 247,138 19,679 150,976 2,507,896	59,019 \$ 150 242,538 19,433 150,097 2,478,596	25,765 \$ 64 118,228 10,021 88,193 958,801	177,988 451 734,074 58,633 451,573 7,462,725
65 66 67 68 69 70	EnergyWise for Business Non Residential Energy Efficienct ITEE Non Residential Smart Saver Custom Non Residential Smart Saver Energy Efficienct Food Service Product Non Residential Smart Saver Energy Efficienct HVAC Products Non Residential Smart Saver Energy Efficienct Lighting Products Non Residential Smart Saver Energy Efficienct Tyrocess Equipment P	roducts ·	2018		33,354 \$ 86 126,171 9,500 62,308 1,517,432 2,431	59,849 \$ 152 247,138 19,679 150,976 2,507,896 6,278	59,019 \$ 150 242,538 19,433 150,097 2,478,596 5,858	25,765 \$ 64 118,228 10,021 88,193 958,801 3,662	177,988 451 734,074 58,633 451,573 7,462,725 18,229
65 66 67 68 69	EnergyWise for Business Non Residential Energy Efficienct ITEE Non Residential Smart Saver Custom Non Residential Smart Saver Energy Efficienct Food Service Product Non Residential Smart Saver Energy Efficienct HVAC Products Non Residential Smart Saver Energy Efficienct Lighting Products Non Residential Smart Saver Energy Efficienct Process Equipment P Non Residential Smart Saver Energy Efficienct Process Equipment P	roducts ·	2018		33,354 \$ 86 126,171 9,500 62,308 1,517,432 2,431 2,885	59,849 \$ 152 247,138 19,679 150,976 2,507,896 6,278 13,050	59,019 \$ 150 242,538 19,433 150,097 2,478,596 5,858 12,910	25,765 \$ 64 118,228 10,021 88,193 958,801 3,662 10,182	177,988 451 734,074 58,633 451,573 7,462,725 18,229 39,027
65 66 67 68 69 70 71 72	EnergyWise for Business Non Residential Energy Efficienct ITEE Non Residential Smart Saver Custom Non Residential Smart Saver Energy Efficienct Food Service Product Non Residential Smart Saver Energy Efficienct HVAC Products Non Residential Smart Saver Energy Efficienct Lighting Products Non Residential Smart Saver Energy Efficienct Process Equipment P Non Residential Smart Saver Energy Efficienct Pumps and Drives Process Energy Saver	roducts ·	2018	\$	33,354 \$ 86 126,171 9,500 62,308 1,517,432 2,431 2,885 420,883	59,849 \$ 152 247,138 19,679 150,976 2,507,896 6,278 13,050 740,394	59,019 \$ 150 242,538 19,433 150,097 2,478,596 5,858 12,910 732,462	25,765 \$ 64 118,228 10,021 88,193 958,801 3,662 10,182 310,818	177,988 451 734,074 58,633 451,573 7,462,725 18,229 39,027 2,204,558
65 66 67 68 69 70 71 72 73	EnergyWise for Business Non Residential Energy Efficienct ITEE Non Residential Smart Saver Custom Non Residential Smart Saver Energy Efficienct Food Service Product Non Residential Smart Saver Energy Efficienct HVAC Products Non Residential Smart Saver Energy Efficienct Uighting Products Non Residential Smart Saver Energy Efficienct Process Equipment P Non Residential Smart Saver Energy Efficienct Pumps and Drives Pro Small Business Energy Saver Total Lost Revenues	roducts ·	2018		33,354 \$ 86 126,171 9,500 62,308 1,517,432 2,431 2,885	59,849 \$ 152 247,138 19,679 150,976 2,507,896 6,278 13,050	59,019 \$ 150 242,538 19,433 150,097 2,478,596 5,858 12,910	25,765 \$ 64 118,228 10,021 88,193 958,801 3,662 10,182	177,988 451 734,074 58,633 451,573 7,462,725 18,229 39,027
65 66 67 68 69 70 71 72	EnergyWise for Business Non Residential Energy Efficienct ITEE Non Residential Smart Saver Custom Non Residential Smart Saver Energy Efficienct Food Service Product Non Residential Smart Saver Energy Efficienct HVAC Products Non Residential Smart Saver Energy Efficienct Lighting Products Non Residential Smart Saver Energy Efficienct Process Equipment P Non Residential Smart Saver Energy Efficienct Pumps and Drives Process Energy Saver	roducts ·	2018	\$	33,354 \$ 86 126,171 9,500 62,308 1,517,432 2,431 2,885 420,883	59,849 \$ 152 247,138 19,679 150,976 2,507,896 6,278 13,050 740,394	59,019 \$ 150 242,538 19,433 150,097 2,478,596 5,858 12,910 732,462	25,765 \$ 64 118,228 10,021 88,193 958,801 3,662 10,182 310,818	177,988 451 734,074 58,633 451,573 7,462,725 18,229 39,027 2,204,558

⁽a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

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	Year 2020	2017	2018	2019	2020) (1/2 year) ^(a)	2021	2022	Total
	Residential								
76	Energy Efficiency Education				\$	29,880 \$	57,985	5 57,894	145,760
77	Energy Efficient Appliances and Devices					1,229,037	2,006,551	2,003,468	5,239,057
78	HVAC Energy Efficiency					45,516	89,139	88,999	223,654
79	Low Income Energy Efficiency and Weatherization Assistance					34,691	41,521	41,457	117,669
80	Multi-Family Energy Efficiency					43,899	46,658	46,574	137,130
81	My Home Energy Report					4,533,331	-	-	4,533,331
82	Residential Energy Assessments					79,025	171,646	171,381	422,051
83	Total Lost Revenues				\$	5,995,379 \$	2,413,501	2,409,773	10,818,652
84	Found Residential Revenue								· · · · · · · · · · · · · · · · · · ·
85	Net Lost Residential Revenue					5,995,379	2,413,501	2,409,773	10,818,652
	Non-Residential	2017	2018	2019	2020) (1/2 year) ^(a)	2021	2022	Total
86	EnergyWise for Business				Ś	16,519 \$	18,140	5 18,391	53,049
87	Non Residential Energy Efficienct ITEE				Ÿ	95	215	218	528
88	Non Residential Smart Saver Custom					152,114	261,444	267,937	681,495
89	Non Residential Smart Saver Energy Efficienct Food Service Products	5				1,687	4,045	4,104	9,835
90	Non Residential Smart Saver Energy Efficienct HVAC Products					39,086	88,977	90,116	218,179
91	Non Residential Smart Saver Energy Efficienct Lighting Products					1,058,704	1,886,342	1,911,497	4,856,543
92	Non Residential Smart Saver Energy Efficienct Pumps and Drives Pro	ducts				1,419	3,260	3,308	7,987
93	Small Business Energy Saver					254,708	434,135	439,128	1,127,971
94	Smart \$aver(R) Non Residential Performance Incentive Program					7,053	15,411	16,372	38,836
95	Total Lost Revenues				\$	1,531,385 \$	2,711,968	\$ 2,751,070	6,994,423
96	Found Non-Residential Revenue					-			-

⁽a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Rider 13, Exhibit 1 Page 5

	Year 2021	2017	2018	2019	2020	2021 (1/2 yea	r)	2022	Total
	Residential								
98	Appliance Recycling					\$	- \$	- \$	-
99	Energy Efficiency Education Program for Schools					86,		154,479	240,834
100	Energy Efficient Applicances and Devices					556,		1,058,360	1,614,555
101	Residential – Smart \$aver Energy Efficiency Program					63,		117,650	180,749
102	Income Qualified Energy Efficiency and Weatherization Assistance					110,		213,153	324,083
103	Multi-Family Energy Efficiency					282,		524,217	806,960
104	My Home Energy Report					7,745,		-	7,745,723
105	Energy Assessments					155,		287,706	442,885
106	Total Lost Revenues					\$ 9,000,	224 \$	2,355,565 \$	11,355,789
107	Found Residential Revenue								-
108	Net Lost Residential Revenue					9,000,	224	2,355,565	11,355,789
	Non-Residential	2017	2018	2019	2020	2021 (1/2 yea	r)	2022	Total
109	Non Residential Smart Saver Custom Technical Assessments					\$ 49,	041 \$	111,925 \$	160,966
110	Non Residential Smart Saver Custom					444,		979,279	1,424,220
111	Energy Management Information Systems					•		,	, , ,
112	Non Residential Smart Saver Energy Efficient Food Service Products					4.	344	8,932	13,277
113	Non Residential Smart Saver Energy Efficient HVAC Products					19,		37,760	57,710
114	Non Residential Smart Saver Energy Efficient Lighting Products					864,		1,738,803	2,603,261
115	Non Residential Energy Efficient Pumps and Drives Products					13,	192	28,986	42,178
116	Non Residential Energy Efficient ITEE					1,	336	3,050	4,386
117	Non Residential Energy Efficient Process Equipment Products					11,	348	22,427	33,775
118	Non Residential Smart Saver Performance Incentive					120,	382	274,745	395,127
119	Small Business Energy Saver					428,	466	936,438	1,364,904
120	Smart Energy in Offices								-
121	EnergyWise for Business					25,	362	52,394	77,756
122	Business Energy Report								
123	Total Lost Revenues					1,982,	320	4,194,740 \$	6,177,561
124									
	Found Non-Residential Revenue					1.982.			6,177,561

⁽a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

		30utii Cai	oillia Lost Reveilues	viiitage reai 2017-202	22				
							Rid	er 13, F	Exhibit 1 Page 6
	Year 2022	2017	2018	2019	2020	2021 (1/2 year)	2022		Total
	Residential								
124	Energy Efficiency Education						\$ 102,768	\$	102,768
125	Energy Efficient Appliances and Devices						795,751		795,751
126	HVAC Energy Efficiency						62,755		62,755
127	Low Income Energy Efficiency and Weatherization Assistance						122,401		122,401
128	Multi-Family Energy Efficiency						197,437		197,437
129	My Home Energy Report						5,999,530		5,999,530
130	Residential Energy Assessments						172,041		172,041
131	Total Lost Revenues					\$ -	\$ 7,452,684	\$	7,452,684
132	Found Residential Revenue								-
133	Net Lost Residential Revenue					-			7,452,684
	No. Postlo est	2047	2040	2040	2020	2024 (4 (2)	2022		T. 1.1.1
	Non-Residential	2017	2018	2019	2020	2021 (1/2 year)	2022		Total
134	Non Residential Energy Efficienct ITEE						\$ 502	\$	502
135	Non Residential Smart Saver Custom						405,834		405,834
136	Non Residential Smart Saver Custom Technical Assessments						50,356		50,356
137	Non Residential Smart Saver Energy Efficienct Food Service Product	s					9,459		9,459
138	Non Residential Smart Saver Energy Efficienct HVAC Products						261,645		261,645
139	Non Residential Smart Saver Energy Efficienct Lighting Products						1,113,845		1,113,845
140	Non Residential Smart Saver Energy Efficienct Process Equipment Process	roducts					6,954		6,954
141	Non Residential Smart Saver Energy Efficienct Pumps and Drives Pro	oducts					16,073		16,073
142	Small Business Energy Saver						775,016		775,016
143	Smart \$aver(R) Non Residential Performance Incentive Program						59,860		59,860
144	Total Lost Revenues					-	\$ 2,699,543	\$	2,699,543
145	Found Non-Residential Revenue								-
146	Net Lost Residential Revenue					-	2,699,543	\$	2,699,543

⁽a) Lost revenues were estimated by applying forecasted lost revenue rates for residential and non-residential customers to state specific forecasted program participation.

Rider 13 Exhibit 2

Duke Energy Carolinas For the Period January 1, 2016 - December 31, 2021 Docket Number 2021-xx-E

DSM/EE Actual Revenues Collected from Years 2017 - 2020 (By Vintage) and Estimated 2021 Collections from Rider 12 (By Vintage)

			Actual 2017 ¹	Actual 2018	Actual 2019 2	Actual 2020	Actuals	Estimated 2021	Total Revenue Estimated Collected
Line			Rider 8	Rider 9	Rider 10	Rider 11	Total	Rider 12	through 2020
	New Mechanism								
Residentia	al								
1	EE and DSM	2017	22,373,744	1,734,312	14,367,644	440,031	38,915,730	(1,393,311)	37,522,419
2	EE and DSM	2018		31,444,916	2,428,773	9,164,234	43,037,923	4,559,602	47,597,525
3	EE and DSM	2019			29,763,833	2,283,116	32,046,949	10,954,076	43,001,024
4	EE and DSM	2020				26,145,151	26,145,151	1,975,653	28,120,804
5	EE and DSM	2021						29,266,268	29,266,268
6	Interest	2017			934,494	709,425	1,643,919	(530,000)	1,113,919
7	Interest	2018				534,159	534,159	402,708	936,867
8	Interest	2019					-	689,278	689,278
Non-Resid	dential								
9	EE	2017	17,081,335	4,428,890	27,468,053	1,840,654	50,818,931	(557,835)	50,261,096
10	EE	2018		20,670,345	5,661,432	4,370,279	30,702,056	2,750,244	33,452,299
11	EE	2019			22,002,027	4,487,774	26,489,801	(1,937,055)	24,552,746
12	EE	2020				15,212,059	15,212,059	3,314,813	18,526,872
13	EE	2021						20,106,288	20,106,288
14	EE Interest	2017			1,941,096	889,970	2,831,066	(19,449)	2,811,616
15	EE Interest	2018				246,016	246,016	119,965	365,980
16	EE Interest	2019					-	(568,640)	(568,640)
17	DSM	2017	6,368,636	137,133	584,748	(92,851)	6,997,667	47,100	7,044,768
18	DSM	2018		6,299,502	413,784	714,814	7,428,101	(104,420)	7,323,681
19	DSM	2019			7,057,618	118,756	7,176,374	176,938	7,353,312
20	DSM	2020				7,067,118	7,067,118	-	7,067,118
21	DSM	2021						9,105,408	9,105,408
22	DSM Interest	2017			66,055	7,682	73,737	145	73,882
23	DSM Interest	2018				126,506	126,506	21,590	148,096
24	DSM Interest	2019					-	16,408	16,408
25 Total Reve	enue Collected		45,823,715	64,715,098	112,689,557	74,264,893	223,228,369	78,395,772	375,889,034

¹ Actual 2017 and 2018 Revenue Source: Rider 11 Exhibit 2 Docket 2018-89-E as filed in conjunction with the Office of Regulatory Staff's review of Duke Energy Carolinas, LLC Application for Approval of Rider 11.

² Actual 2019 Revenue Source: Rider 12 Exhibit 2 Docket 2020-83-E as filed in conjunction with the Office of Regulatory Staff's review of Duke Energy Carolinas, LLC Application for Approval of Rider 12.

³ Estimated 2021 Revenue Source: Rider 12 Exhibit A.

In order to calculate interest properly, the component of interest that is estimated to be collected related to prior year collection of revenues has been segregated from the revenue requirement.

R13 Exhibit 3 page 1 of 2

Duke Energy Carolinas For the Period January 1, 2020 - December 31, 2020 Docket Number 2021-xx-E Forecasted kWh Sales for Years 2017 - 2022

Fall 2020 Sales Forecast - kWhs

Adjusted SC Retail Sales Forecast (excludes Gree	enwood sales)	Ref	2022 Sales	Factor to Exclude Greenwood Sales from Forecast		2020 MWh Usage	Percent to Total
1 Residential	Company Records	SC FOR 1	6,581,541,400	Total SC Residential Sales	FOR 3	578,330	
2 Factor to exclude Greenwood	see calc. to right		99.37384%	Greenwood Residential Sales	FOR 4	3,621	
3 Residential sales excluding Greenwood	Line 1*Line 2		6,540,330,420	SC Residential Sales excluding Greenwood		574,709	99.37384%
4 Non-Residential (excluding lighting)	Company Records	SC FOR 1	14,903,765,071	Total SC Non-Residential Sales	FOR 3	812,286	
5 Factor to exclude Greenwood	see calc. to right		99.96175%	Greenwood Non-Residential Sales	FOR 4	311	
6 Non-Residential sales excluding Greenwood	Line 4*Line 5		14,898,064,380	SC Non-Residential Sales excluding Greenwood		811,975	99.96175%
7 Total Retail sales excluding Greenwood	Line 3 + Line 6		21,438,394,800	Total SC Retail Sales		1,390,616	
				Greenwood Retail Sales		3,932	
				SC Retail Sales excluding Greenwood		1,386,684	

	OPT 3			
Opt Out Sales	OPT 3	Total Retail Sales	Less: Opt Outs	Net Retail Sales
Year 2017				
8 EE		14,898,064,380	9,430,207,069	5,467,857,312
9 DSM		14,898,064,380	8,684,019,328	6,214,045,053
Year 2018				
10 EE		14,898,064,380	9,499,666,646	5,398,397,735
11 DSM		14,898,064,380	8,642,036,806	6,256,027,575
Year 2019				
12 EE		14,898,064,380	9,535,218,446	5,362,845,935
13 DSM		14,898,064,380	8,643,937,630	6,254,126,751
Year 2020				
14 EE		14,898,064,380	9,593,238,585	5,304,825,796
15 DSM		14,898,064,380	8,643,937,630	6,254,126,751
Year 2021				
16 EE		14,898,064,380	9,579,821,484	5,318,242,897
17 DSM		14,898,064,380	8,643,100,545	6,254,963,836
Year 2022				
18 EE		14,898,064,380	9,579,821,484	5,318,242,897
19 DSM		14,898,064,380	8,643,100,545	6,254,963,836

R13 Exhibit 3 page 2 of 2

Duke Energy Carolinas For the Period January 1, 2020 - December 31, 2020 Docket Number 2021-xx-E Forecasted kWh Net Metering Impacts for Year 2022

Summary:

SC Residential customers participating in the net Metering program are being charged a solar access fee. This fee includes a component of EE recovery.

Non-residential customers participating in the net Metering program are assumed to be opted out of the EE programs and their fee does not include an EE component.

Revenue collected as a part of this solar access fee will offset the revenue requirement of the EE rider.

Since revenue collected is not assigned a vintage, it will be subtracted from the total revenue requirement requested on Exhibit A.

554,864

	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22
Projected Installed Nameplate Capacity	74,611	74,611	74,611	74,611	74,611	74,611	74,611	74,611	74,611	74,611	74,611	74,611
Current Solar Access Fee Rate (\$/kW)	0.6197	0.6197	0.6197	0.6197	0.6197	0.6197	0.6197	0.6197	0.6197	0.6197	0.6197	0.6197
Amount collected per month	46,239	46,239	46,239	46,239	46,239	46,239	46,239	46,239	46,239	46,239	46,239	46,239

Rider 13 Exhibit 4, Page 1 of 6

Duke Energy Carolinas For the Period January 2017 - December 31, 2020 Docket Number 2021-xx-E Residential Interest Calculation - Year 2017 - 2018

Residential

Year 2017			<u>2017</u>	<u>2018</u>	<u>2019</u>		<u>2020</u>	<u>2021</u>			<u>Total</u>
1 Revenue Requirement 2 Revenue Collections	Year 2017 Exhibit 1 Rider 13, Exhibit 2	\$	30,462,648 22,373,744	\$ 3,977,873 1,734,312	2,335,58 14,367,64		698,213 440,031	(1,393,311)	Note D	\$	37,474,322 37,522,419
3 (Over) / Under Collection 4 Cumulative (Over)/Under Collection 5 Average Balance (Over)/Under Collection 6 Monthly rate (WACC) 7 Number of Months	Line 1 - Line 2 Line 3 + Prior Year Line 4 Line 13/12	_	8,088,905 8,088,905 4,044,452 0.005782 12	2,243,561 10,332,466 9,210,685 0.005782 12	(12,032,05 (1,699,55 4,316,43 0.00565	7) 1) 8	258,182 (1,441,409) (1,570,500) 0.005556 12	1,393,311 (48,098) (744,753) 0.005556 12			(48,098)
8 Interest Due (Owed) 9 Interest Paid (Returned) in Prior Rider 10 Interest Due - Rider 13 11 Gross Receipts Tax 12 Interest Due - including GRT - Rider 13	Line 5 * Line 6* Line 7 R12 Exh 4 Page 1 of 5, Line 8 Line 8 - Line 9 Line 10 * Line 11	\$	280,620	\$ 639,074			(104,708)			\$ \$	1,057,986 1,109,246 (51,260) 1.005364 (51,535)
13 Weighted average cost of capital (WACC)			6.9384% NOTE A	6.9384% NOTE A	6.7800 NOTE B)%	6.6669% NOTE C	6.6669% NOTE C			

NOTE A: Docket 2013-59-E

NOTE B: 5 months Docket 2013-59-E, 7 months Docket 2018-319-E

NOTE C: Docket 2018-319-E,

NOTE D: Estimated Year 4 lost revenue and revenue collections have been included in the interest true-up. Assumed collection on Rider 13 Exhibit 2

Year 2018			<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>		<u>Total</u>
14 Revenue Requirement 15 Revenue Collections	Year 2018 Exhibit 1 Rider 13, Exhibit 2	\$	36,554,574 31,444,916	4,799,869 2,428,773		(18,454) 4,559,602	\$ Note D	47,183,491 47,597,525
16 (Over) / Under Collection 17 Cumulative (Over)/Under Collection 18 Average Balance (Over)/Under Collection	Line 1 - Line 2 Line 3 + Prior Year Line 4	_	5,109,658 5,109,658 2,554,829	2,371,096 7,480,754 6,295,206	4,164,023	(4,578,056) (414,033) 1,874,995		(414,033)
19 Monthly rate (WACC) 20 Number of Months	Line 13/12	_	0.005782	0.005650	0.005556	0.005556		
21 Interest Due (Owed) 22 Interest Paid (Returned) in Prior Rider	Line 5 * Line 6* Line 7 R12 Exh 4 Page 1 of 5, Line 8	\$	177,264	\$ 426,818	\$ \$ 388,176	\$ 125,005	\$	1,117,263 932,491
23 Interest Due - Rider 13 24 Gross Receipts Tax	Line 8 - Line 9						\$	184,772 1.005364
25 Interest Due - including GRT - Rider 13 26 Weighted average cost of capital (WACC)	Line 10 * Line 11		6.9384%	6.7800%	% 6.6669%	6.6669%	\$	185,763
20 Weighted average cost of capital (WACC)			NOTE A	NOTE B	NOTE C	NOTE C		

NOTE A: Docket 2013-59-E

NOTE B: 5 months Docket 2013-59-E, 7 months Docket 2018-319-E

NOTE C: Docket 2018-319-E,

NOTE D: Estimated Year 4 lost revenue and revenue collections have been included in the interest true-up. Assumed collection on Rider 13 Exhibit 2

Rider 13 Exhibit 4, Page 2 of 6

Duke Energy Carolinas For the Period January 2020 - December 31, 2020 Docket Number 2021-xx-E Residential Interest Calculation - Year 2019 - 2020

Residential

Year 2019		2019	2020		<u>2021</u>			Total
1 Revenue Requirement	Year 2017 Exhibit 1	36,585,529	2,088,281		4,134,540		\$ 4	42,808,350
2 Revenue Collections	Rider 13, Exhibit 2	 29,763,833	2,283,116		10,954,076	Note C	_	43,001,024
3 (Over) / Under Collection	Line 1 - Line 2	6,821,697	(194,835))	(6,819,536)			(192,674)
4 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	6,821,697	6,626,862		(192,674)			
5 Average Balance (Over)/Under Collection		3,410,848	6,724,279		3,217,094			
6 Monthly rate (WACC)	Line 13/12	0.00565004	0.005555791		0.005555791			
7 Number of Months		 12	12	2	12			
8 Interest Due (Owed)	Line 5 * Line 6* Line 7	\$ 231,257	\$ 448,304	\$	214,482		\$	894,043
9 Interest Paid (Returned) in Prior Rider	R12 Exh 4 Page 2 of 5							685,823
10 Interest Due - Rider 13	Line 8 - Line 9						\$	208,220
11 Gross Receipts Tax								1.005364
12 Interest Due - including GRT - Rider 13	Line 10 * Line 11						\$	209,337
13 Weighted average cost of capital (WACC)		6.7800%	6.6669%	6	6.6669%			
		NOTE A	NOTE B		NOTE B			

NOTE A: 5 months Docket 2013-59-E and 7 months Docket 2018-319-E

NOTE B: Docket 2018-319-E

NOTE C: Estimated Year 3 lost revenue and revenue collections have been included in the interest true-up. Assumed collection on Rider 13 Exhibit 2.

Year 2020		<u>2020</u>		<u>2021</u>		<u>Total</u>
14 Revenue Requirement	Year 2017 Exhibit 1	28,948,8		1,975,653		30,924,538
15 Revenue Collections	Rider 12, Exhibit 2	26,145,1	51	1,975,653	Note B	 28,120,804
16 (Over) / Under Collection	Line 1 - Line 2	2,803,7	34	-		2,803,734
17 Cumulative (Over)/Under Collection	Line 3 + Prior Year Line 4	2,803,7	34	2,803,734		
18 Average Balance (Over)/Under Collection		1,401,8	67	2,803,734		
19 Monthly rate (WACC)	Line 13/12	0.005555	791	0.005555791		
20 Number of Months			12	12		
21 Interest Due (Owed)	Line 5 * Line 6* Line 7	\$ 93,4	62 :	\$ 186,924		\$ 280,385
22 Interest Paid (Returned) in Prior Rider	N/A					-
23 Interest Due - Rider 12	Line 8 - Line 9					\$ 280,385
24 Gross Receipts Tax						1.005364
25 Interest Due - including GRT - Rider 12	Line 10 * Line 11					\$ 281,889
26 Weighted average cost of capital (WACC)		6.666 NOTE A	9%	6.6669% NOTE A		

NOTE A: Docket 2018-319-E

NOTE B: Estimated Year 2 lost revenue and revenue collections have been included in the interest true-up. Assumed collection on Rider 13 Exhibit 2.

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Duke Energy Carolinas For the Period January 2017 - December 31, 2020 Docket Number 2021-xx-E Non-Residential Interest Calculation Year 2017

Non-Residential

Year 2017 - Energy Efficiency			<u>2017</u>	2018	<u>2019</u>	<u>2020</u>	<u>2021</u>		I	<u>otal</u>
Revenue Requirement before interest Revenue Collections	Year 2017 Exhibit 1 Rider 13, Exhibit 2	\$	33,701,645 \$ 17,081,335	11,296,323 \$ 4,428,890	4,448,507 \$ 27,468,053	1,164,082 1,840,654	(557,835)	NOTE D		,610,558 ,261,096
3 (Over) / Under Collection 4 Cumulative (Over)/Under Collection 5 Average Balance (Over)/Under Collection	Line 1 - Line 2 Line 3 + Prior Year Line 4	_	16,620,310 16,620,310 8,310,155	6,867,434 23,487,744 20,054,027	(23,019,545) 468,198 11,977,971	(676,572) (208,374) 129,912	557,835 349,461 70,544			349,461
6 Monthly rate (WACC) 7 Number of Months	Line 13/12	_	0.5782% 12	0.5782% 12	0.5650% 12	0.5556% 12	0.5556% 12		4 0	700 400
8 Interest Due (Owed) 9 Interest Paid (Returned) in prior rider 10 Interest Due - Rider 13	Line 5 * Line 6 * Line 7 R12 Exh 4 Page 3 of 5, Line 8 Line 8 - Line 9	\$	576,592 \$	1,391,429 \$	812,106 \$	8,662 \$	4,703		\$,793,492 ,799,100 (5,608)
11 Gross Receipts Tax 12 Interest Due - including GRT - Rider 13	Line 10 * Line 11								\$	(5,638)
13 Weighted average cost of capital (WACC)			6.9384% NOTE A	6.9384% NOTE A	6.7800% NOTE B	6.6669% NOTE C	6.6669% NOTE C			

NOTE A: Docket 2013-59-E

NOTE B: 5 months Docket 2013-59-E, 7 months Docket 2018-319-E

NOTE C: Docket 2018-319-E,

NOTE D: Estimated Year D lost revenue and revenue collections have been included in the interest true-up. Assumed collection at on Rider 12 Exhibit 2.

Year 2017 - DSM		<u>2017</u>	<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>		<u>Total</u>
14 Revenue Requirement before interest	Year 2017, Exhibit 1	\$ 7,000,484						\$ 7,000,484
15 Revenue Collections	Rider 13, Exhibit 2	 6,368,636	137,133	584,748	(92,851)	47,100	NOTE D	 7,044,768
16 (Over) / Under Collection	Line 14 - Line 15	631,848	(137,133)	(584,748)	92,851	(47,100)		(44,283)
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	631,848	494,715	(90,034)	2,817	(44,283)		
18 Average Balance (Over)/Under Collection		315,924	563,281	202,340	(43,608)	(20,733)		
19 Monthly rate (WACC)	Line 26/12	0.5782%	0.5782%	0.5650%	0.5556%	0.5556%		
20 Number of Months		12	12	12	12	12		
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ 21,920 \$	39,083 \$	13,719 \$	(2,907) \$	(1,382)		 70,432
22 Interest Paid (Returned) in Prior Rider	R12 Exh 4 Page 3 of 5, Line 21							73,553
23 Interest Due - Rider 13	Line 21 - Line 22							\$ (3,121)
24 Gross Receipts Tax								1.005364
25 Interest Due - including GRT - Rider 13	Line 23 * Line 24							\$ (3,138)
26 Weighted average cost of capital (WACC)		6.9384% NOTE A	6.9384% NOTE A	6.7800% NOTE B	6.6669% NOTE C	6.6669% NOTE C		

NOTE A: Docket 2013-59-E

NOTE B: 5 months Docket 2013-59-E, 7 months Docket 2018-319-E

NOTE C: Docket 2018-319-E,

NOTE D: Estimated Year D lost revenue and revenue collections have been included in the interest true-up. Assumed collection at on Rider 12 Exhibit 2.

Rider 13 Exhibit 4, Page 4 of 6

Duke Energy Carolinas For the Period January 2018 - December 31, 2020 Docket Number 2021-xx-E Non-Residential Interest Calculation Year 2018

Non-Residential

Year 2018 - Energy Efficiency			<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>		<u>Total</u>	
Revenue Requirement before interest Revenue Collections	Year 2018 Exhibit 1 Rider 13, Exhibit 2	\$	23,432,115 \$ 20,670,345	5,121,770 \$ 5,661,432	6,288,393 \$ 4,370,279	59,795 2,750,244	NOTE D	\$ 34,902,07 33,452,29	
3 (Over) / Under Collection 4 Cumulative (Over)/Under Collection 5 Average Balance (Over)/Under Collection	Line 1 - Line 2 Line 3 + Prior Year Line 4		2,761,770 2,761,770 1,380,885	(539,662) 2,222,108 2,491,939	1,918,114 4,140,222 3,181,165	(2,690,448) 1,449,773 2,794,997		1,449,77	/3
6 Monthly rate (WACC) 7 Number of Months	Line 13/12	_	0.5782%	0.5650%	0.5556%	0.5556%		A	_
8 Interest Due (Owed) 9 Interest Paid (Returned) in prior rider 10 Interest Due - Rider 13 11 Gross Receipts Tax	Line 5 * Line 6 * Line 7 R12 Exh 4 Page 4 of 5, Line 8 Line 8 - Line 9	\$	95,811 \$	168,953 \$	212,095 \$	186,348		\$ 663,20 364,29 \$ 298,91 1,00536	92 16
12 Interest Due - including GRT - Rider 13	Line 10 * Line 11							\$ 300,51	_
13 Weighted average cost of capital (WACC)			6.9384% NOTE A	6.7800% NOTE B	6.6669% NOTE C	6.6669% NOTE C			

NOTE A: Docket 2013-59-E

NOTE B: 5 months Docket 2013-59-E, 7 months Docket 2018-319-E

NOTE C: Docket 2018-319-E,

NOTE D: Estimated Year 4 lost revenue and revenue collections have been included in the interest true-up. Assumed 2020 collection on Rider 13 Exhibit 2.

Year 2018 - DSM			<u>2018</u>	<u>2019</u>	<u>2020</u>	<u>2021</u>		<u>Total</u>
14 Revenue Requirement before interest 15 Revenue Collections	Year 2018, Exhibit 1 Rider 13, Exhibit 2	\$	6,921,186 \$ 6,299,502	692,983 \$ 413,784	(4,238) 714,814	(104,420) NOTE D	\$	7,609,931 7,323,681
16 (Over) / Under Collection	Line 14 - Line 15	_	621,684	279,199	(719,052)	104,420	_	286,250
17 Cumulative (Over)/Under Collection 18 Average Balance (Over)/Under Collection	Line 16 + Prior Year Line 17		621,684 310,842	900,883 761,283	181,830 541,356	286,250 234,040		
19 Monthly rate (WACC) 20 Number of Months	Line 26/12		0.5782%	0.5650% 12	0.5556%	0.5556% 12		
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$	21,567 \$	51,615 \$	36,093 \$		_	124,880
22 Interest Paid (Returned) in Prior Rider 23 Interest Due - Rider 13	R12 Exh 4 Page 4 of 5, Line 21 Line 21 - Line 22						\$	(22,549)
24 Gross Receipts Tax 25 Interest Due - including GRT - Rider 13	Line 23 * Line 24						\$	(22,670)
26 Weighted average cost of capital (WACC)			6.9384% NOTE A	6.7800% NOTE B	6.6669% NOTE C	6.6669% NOTE C		

NOTE A: Docket 2013-59-E

NOTE B: 5 months Docket 2013-59-E, 7 months Docket 2018-319-E

NOTE C: Docket 2018-319-E,

NOTE D: Estimated Year 4 lost revenue and revenue collections have been included in the interest true-up. Assumed 2020 collection on Rider 13 Exhibit 2.

Rider 13 Exhibit 4, Page 5 of 6

Duke Energy Carolinas For the Period January 2020 - December 31, 2020 Docket Number 2021-xx-E Non-Residential Interest Calculation Year 2019

Non-Residential

Year 2019 - Energy Efficiency			<u>2019</u>	<u>2020</u>		<u>2021</u>		<u>Total</u>
Revenue Requirement before interest Revenue Collections	Year 2019 Exhibit 1 Rider 13, Exhibit 2	\$	16,439,699 22,002,027	\$ 6,215,027 4,487,774	\$	3,626,400 (1,937,055)	NOTE C	26,281,126 24,552,746
3 (Over) / Under Collection	Line 1 - Line 2	_	(5,562,328)	1,727,253		5,563,455		 1,728,380
4 Cumulative (Over)/Under Collection 5 Average Balance (Over)/Under Collection	Line 3 + Prior Year Line 4		(5,562,328) (2,781,164)	(3,835,074) (4,698,701)		1,728,380 (1,053,347)		
6 Monthly rate (WACC)	Line 13/12		0.5650%	0.5556%		0.5556%		
7 Number of Months			12	12		12		
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$	(188,563)	\$ (313,272)	Ş	(70,229)		\$ (572,063)
9 Interest Paid (Returned) in prior rider	R12 Exh 4 Page 5 of 5							(565,827)
10 Interest Due - Rider 13	Line 8 - Line 9							\$ (6,237)
11 Gross Receipts Tax								1.005364
12 Interest Due - including GRT - Rider 13	Line 10 * Line 11							\$ (6,270)
13 Weighted average cost of capital (WACC)			6.7800%	6.6669%		6.6669%		
			NOTE A	NOTE B		NOTE B		

NOTE A: January through May 2019 uses Docket 2013-59-E; June through December uses Docket 2018-319-E

NOTE B: Docket 2018-319-E

NOTE C: Estimated Year 3 lost revenue and estimated revenue collections have been included in the interest true-up. Assumed collection on Rider 13 Exhibit 2

Year 2019 - DSM		2019	<u>20</u>	20	<u>20</u>	<u>)21</u>		<u>Total</u>
14 Revenue Requirement before interest 15 Revenue Collections	Year 2019, Exhibit 1 Rider 13, Exhibit 2	\$ 7,209,874 7,057,618	•	8,694 118,756		176,938	NOTE C	\$ 7,218,568 7,353,312
16 (Over) / Under Collection	Line 14 - Line 15	 152,257	(110,063)	(176,938)		(134,744)
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	152,257		42,194	(134,744)		
18 Average Balance (Over)/Under Collection		76,128		97,225		(46,275)		
19 Monthly rate (WACC)	Line 26/12	0.5650%		0.5556%		0.5556%		
20 Number of Months		12		12		12		
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ 5,161	\$	6,482	\$	(3,085)	•	 8,558
22 Interest Paid (Returned) in Prior Rider	N/A							16,362
23 Interest Due - Rider 13	Line 21 - Line 22							\$ (7,804)
24 Gross Receipts Tax								1.005364
25 Interest Due - including GRT - Rider 13	Line 23 * Line 24							\$ (7,846)
26 Weighted average cost of capital (WACC)		6.7800% NOTE A		6.6669% TE B		6.6669% TE B		

NOTE A: January through May 2019 uses Docket 2013-59-E; June through December uses Docket 2018-319-E

NOTE B: Docket 2018-319-E

NOTE C: Estimated Year 3 lost revenue and estimated revenue collections have been included in the interest true-up. Assumed collection on Rider 13 Exhibit 2

Rider 13 Exhibit 4, Page 6 of 6

Duke Energy Carolinas For the Period January 2020 - December 31, 2020 Docket Number 2021-xx-E Non-Residential Interest Calculation Year 2020

Non-Residential

Year 2020 - Energy Efficiency			<u>2020</u>	<u>2021</u>			<u>Total</u>
Revenue Requirement before interest Revenue Collections	Year 2020 Exhibit 1 Rider 13, Exhibit 2	\$	11,852,213 \$ 15,212,059	3,314,813 3,314,813	NOTE B		15,167,026 18,526,872
3 (Over) / Under Collection	Line 1 - Line 2	_	(3,359,846)	-	NOTED	_	(3,359,846)
4 Cumulative (Over)/Under Collection 5 Average Balance (Over)/Under Collection	Line 3 + Prior Year Line 4		(3,359,846) (1,679,923)	(3,359,846) (3,359,846)			
6 Monthly rate (WACC) 7 Number of Months	Line 13/12		0.5556% 12	0.5556% 12			
8 Interest Due (Owed)	Line 5 * Line 6 * Line 7	\$	(112,004) \$	(224,008)		\$	(336,011)
9 Interest Paid (Returned) in prior rider 10 Interest Due - Rider 13	N/A Line 8 - Line 9					\$	(336,011)
11 Gross Receipts Tax 12 Interest Due - including GRT - Rider 13	Line 10 * Line 11					\$	(337,814)
13 Weighted average cost of capital (WACC)			6.6669% NOTE A	6.6669% NOTE A			

Note A: Docket 2018-319-E

NOTE B: Estimated Year 2 lost revenue and estimated revenue collections have been included in the interest true-up. Assumed collection at on Rider 13 Exhibit 2

Year 2020 - DSM		<u>2020</u>	<u>2021</u>		<u>Total</u>
14 Revenue Requirement before interest 15 Revenue Collections	Year 2020, Exhibit 1 Rider 13, Exhibit 2	\$ 7,049,725 7,067,118	_	NOTE B	\$ 7,049,725 7,067,118
16 (Over) / Under Collection	Line 14 - Line 15	 (17,394)	-		 (17,394)
17 Cumulative (Over)/Under Collection	Line 16 + Prior Year Line 17	(17,394)	(17,394)		(,== ,
18 Average Balance (Over)/Under Collection		(8,697)	(17,394)		
19 Monthly rate (WACC)	Line 26/12	0.5556%	0.5556%		
20 Number of Months		12	12		
21 Interest Due (Owed)	Line 18 * Line 19 * Line 20	\$ (580) \$	(1,160)		(1,740)
22 Interest Paid (Returned) in Prior Rider	N/A				-
23 Interest Due - Rider 13	Line 21 - Line 22				\$ (1,740)
24 Gross Receipts Tax					1.005364
25 Interest Due - including GRT - Rider 13	Line 23 * Line 24				\$ (1,749)
26 Weighted average cost of capital (WACC)		6.6669%	6.6669%		
		NOTE A	NOTE A		

Note A: Docket 2018-319-E

NOTE B: Estimated Year 2 lost revenue and estimated revenue collections have been included in the interest true-up. Assumed collection at on Rider 13 Exhibit 2